Programmed Math

A Sullivan Associates Program

California State Series

Book 4

Multiplication

PROGRAMMED MATH

Marjorie Doyle Sullivan
Sullivan Associates

Book 4 • Multiplication

NOTE TO THE INSTRUCTOR

Multiplication is the fourth book of this series. If your students have studied Book 3, simply tell them to continue working independently in Book 4. If they have not used Book 3, have them cover the answer column on page 1 with their sliders, and give them the following instructions:

"Look at the gray box at the top of the page. It tells us that one pencil plus another pencil equals - how many pencils? Now look at the numbers under the gray box. They tell us that 1 plus blank equals 2. What number should we write in the blank? Pull your slider down to the first black line to check. Underneath, it says that two 1's equal blank. What number should we write in the blank? Pull your slider down to check.

"The next gray box has houses in it, but you have no answer to make. A gray box simply shows you the kind of thing you are going to do next. In this box we see that one house plus a second house plus a third house equals - how many houses? And underneath it says that 1 plus 1 plus blank equals 3. What number should you write in the blank? Pull your slider down to check."

In this way, help your students through the rest of the page. See that they always make their answers before pulling the slider down to check.

After finishing page 1, ask if there are any questions. When you are sure that all the students know what to do, show them how to insert the slider over the answer column before turning the page. Then continue to help them through the first six pages.

At the end of the first test, tell the students to score it by giving themselves 100 if they got all the answers right, and marking the number wrong at the top of the page if they didn't. Help those who miss more than three test problems. Start the others working independently as follows:

"Now turn to page 7, cover the answer column with your slider, and go on working by yourselves. Remember that you read only right-hand pages. Wherever you see a blank (___), fill in a number. Wherever you are given a choice, circle the correct answer."

If any student still doesn't seem to understand what to do, continue to help him through the book until he is ready to work by himself. For more complete instructions, see the accompanying teacher's manual.

This Is a California
STATE TEXTBOOK

- It is the duty of the pupils to assist the State by guarding and using this book with care, so that it may yield good service.
- If a pupil should lose or damage the book, he may be required to pay for the loss or damage.
- It is the duty of teachers to encourage and enforce these provisions.

Book No. __________

__________ *School District*

in __________ *County*

Date of issue __________, 19___

A Sullivan Associates Program

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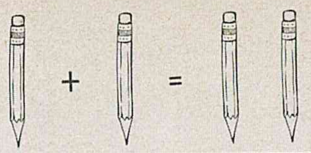
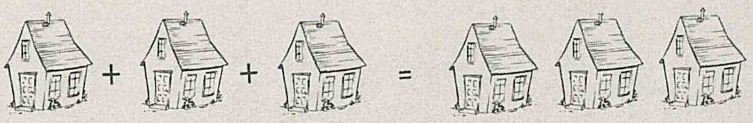
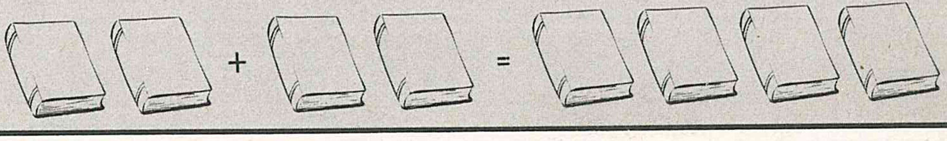
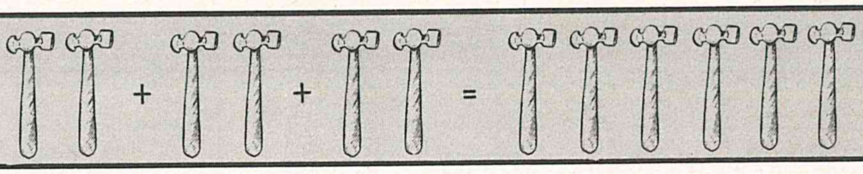
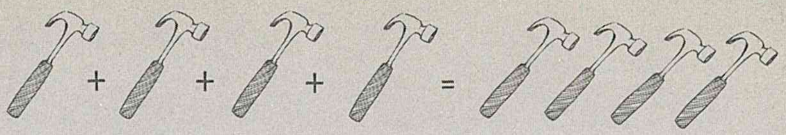
	
1	1 + ___ = 2
2	two 1's = ___
	
1	1 + 1 + ___ = 3
3	three 1's = ___
	
2	2 + ___ = 4
4	two 2's = ___
	
2	2 + ___ + 2 = 6
6	three 2's = ___
	3 × 2 means three 2's
1	3 × ___ means three 1's
3	2 × ___ means two 3's



1	1 + 1 + 1 + ___ = 4
4	four 1's = ___
1	4 × ___ = 4
5	1 + 1 + 1 + 1 + 1 = ___
1	5 × ___ = 5
1	1 + 1 + 1 + 1 + 1 + ___ = 6
6	six 1's = ___
1	6 × ___ = 6
three 1's	3 × 1 means three 2's three 1's
four 2's	4 × 2 means four 1's four 2's
2	two 1's = ___
1	2 × ___ = 2
3	three 1's = ___
1	3 × ___ = 3

6	three 2's = ___
3	___ × 2 = 6
4	two 2's = ___
2	2 × ___ = 4
4	4 × 1 = ___
5	5 × 1 = ___
1	3 × ___ = 3
	Which is shorter? a. 1 + 1 + 1 + 1 + 1 = 5 [✓ b.] 5 × 1 = 5
b.	Which is shorter? a. 1 + 1 + 1 + 1 = 4 b. 4 × 1 = 4
8	2 + 2 + 2 + 2 = ___
4	How many 2's did we just add? ___
8	so four 2's = ___
2	4 × ___ = 8

6	2 + 2 + 2 = ___
3	How many 2's did we add? ___
6	so three 2's = ___
3	___ × 2 = 6
7	1 + 1 + 1 + 1 + 1 + 1 + 1 = ___
1	It is shorter to say 7 × ___ = 7 .
10	2 + 2 + 2 + 2 + 2 = ___
5	so ___ × 2 = 10 (Count the 2's.)
9	3 + 3 + 3 = ___
3	so ___ × 3 = 9 (Count the 3's.)
12	Add: 3 + 3 + 3 + 3 = ___
4	Multiply: ___ × 3 = 12
	1 + 3 ↑ This sign tells us to add.
multiply	4 × 2 ↑ This sign tells us to subtract. multiply.

	Multiplication is a short way to add a number to itself many times.
b.	Which is shorter? a. 3 + 3 + 3 + 3 = 12 b. 4 × 3 = 12
4 1	Add: Multiply: 1 + 1 + 1 + 1 = ___ → 4 × ___ = 4
8 2	2 + 2 + 2 + 2 = ___ → 4 × ___ = 8
12 3	3 + 3 + 3 + 3 = ___ → 4 × ___ = 12
subtract	3 - 2 This sign tells us to add. subtract.
multiply	3 × 2 This sign tells us to multiply. add.
8 - 6 = 2 4 + 2 = 6 4 × 2 = 8	Fill in the signs: 8 6 = 2 4 2 = 6 4 2 = 8

6	One 3 is 3. One 6 is ___.
	any number × 1 = the same number
4	4 × 1 = ___
1	7 × ___ = 7
9	___ × 1 = 9
5 + 4 = 9	TEST Fill in the signs: 5 4 = 9
3 + 5 = 8	3 5 = 8
7 - 1 = 6	7 1 = 6
2 × 1 = 2	2 1 = 2
8 - 4 = 4	8 4 = 4
3 × 2 = 6	3 2 = 6
1	1 × ___ = 1
8	8 × 1 = ___
2	2 × ___ = 4
6	2 × 3 = ___
4	2 × ___ = 8
3	3 × ___ = 9

1	any number × ___ = the same number
572	572 × 1 = 57__
4,380	4,380 × 1 = _,___
76,492	76,492 × 1 = __,___
6	2 + 2 + 2 = 6 means three 2's = ___
3	so ___ × 2 = 6
6	3 + 3 = 6 means two 3's = ___
2	so ___ × 3 = 6
6	We can multiply in any order. Both 3 × 2 and 2 × 3 = ___ .
8	4 + 4 = 8 means two 4's = ___
2	so ___ × 4 = 8
8	and 4 × 2 = ___

2 10 2 5	2 + 2 + 2 + 2 + ___ = 10 means five 2's = ___ so 5 × ___ = 10 and 2 × ___ = 10
6 12 6 2	6 + ___ = 12 means two 6's = ___ so 2 × ___ = 12 and 6 × ___ = 12
7 14 7 2	7 + ___ = 14 means two 7's = ___ so 2 × ___ = 14 and 7 × ___ = 14
2 16	___ × 8 = 16 and 8 × 2 = ___ Check: (8 + 8 = 16)
2 18	___ × 9 = 18 and 9 × 2 = ___ Check: (9 + 9 = 18)

8	$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$ is the same as 2 × 4 = ___
	We multiply the top number by the bottom number. $\begin{array}{r} 4 \\ \times 3 \end{array}$ means three 4's
2	$\begin{array}{r} 3 \\ \times \underline{\quad} \end{array}$ means two 3's
5	$\begin{array}{r} \overline{\quad} \\ \times 2 \end{array}$ means two 5's
4 6 7	$\begin{array}{r} 4 \\ \times 1 \\ \hline \underline{\quad} \end{array}$ $\begin{array}{r} 3 \\ \times 2 \\ \hline \underline{\quad} \end{array}$ $\begin{array}{r} 7 \\ \times 1 \\ \hline \underline{\quad} \end{array}$
10 6 12	$\begin{array}{r} 5 \\ \times 2 \\ \hline \underline{\quad} \end{array}$ $\begin{array}{r} 1 \\ \times 6 \\ \hline \underline{\quad} \end{array}$ $\begin{array}{r} 6 \\ \times 2 \\ \hline \underline{\quad} \end{array}$
16 9 14	$\begin{array}{r} 8 \\ \times 2 \\ \hline \underline{\quad} \end{array}$ $\begin{array}{r} 9 \\ \times 1 \\ \hline \underline{\quad} \end{array}$ $\begin{array}{r} 2 \\ \times 7 \\ \hline \underline{\quad} \end{array}$

3	3 + 3 + ___ = 9
9	three 3's = ___
3	3 × ___ = 9
4	4 + 4 + ___ = 12
12	three 4's = ___
4	3 × ___ = 12
3	4 × ___ = 12
15	5 + 5 + 5 = ___
5	3 × ___ = 15
15	5 × 3 = ___
18	6 + 6 + 6 = ___
3	___ × 6 = 18
18	6 × 3 = ___
21	7 + 7 + 7 = ___
7	3 × ___ = 21
24	8 + 8 + 8 = ___
8	3 × ___ = 24
3	___ × 9 = 27 Check: (9 + 9 + 9 = 27)

2
12
3
15
8
21
3
14
18
16
4
20
4
24
6
28
7
32

$\begin{array}{r} 9 \\ \times \underline{\quad} \\ \hline 18 \end{array}$	$\begin{array}{r} 4 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times \underline{\quad} \\ \hline 24 \end{array}$
$\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$
$\begin{array}{r} 9 \\ \times \underline{\quad} \\ \hline 27 \end{array}$	$\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$
$\begin{array}{r} 4 \\ 4 \\ 4 \\ +4 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times \underline{\quad} \\ \hline 16 \end{array}$	$\begin{array}{r} 5 \\ 5 \\ 5 \\ +5 \\ \hline \end{array}$
$\begin{array}{r} 5 \\ \times \underline{\quad} \\ \hline 20 \end{array}$	$\begin{array}{r} 6 \\ 6 \\ 6 \\ +6 \\ \hline \end{array}$	$\begin{array}{r} \overline{\quad} \\ \times 4 \\ \hline 24 \end{array}$
$\begin{array}{r} 7 \\ 7 \\ 7 \\ +7 \\ \hline \end{array}$	$\begin{array}{r} \overline{\quad} \\ \times 4 \\ \hline 28 \end{array}$	$\begin{array}{r} 8 \\ 8 \\ 8 \\ +8 \\ \hline \end{array}$

4

36

9

6

5

40

45

12

24

9

20

18

35

5

36

3

45

4

28

$\begin{array}{r} 8 \\ \times\ \underline{\quad} \\ 32 \end{array}$ $\begin{array}{r} 9 \\ 9 \\ 9 \\ \underline{+9} \end{array}$ $\begin{array}{r} \underline{\quad} \\ \underline{\times 4} \\ 36 \end{array}$

Check:

5 × ___ = 30 (6 + 6 + 6 + 6 + 6 = 30)

___ × 7 = 35

5 × 8 = ___

5 × 9 = ___

TEST

$\begin{array}{r} 6 \\ \underline{\times 2} \end{array}$ $\begin{array}{r} 8 \\ \underline{\times 3} \end{array}$ $\begin{array}{r} 1 \\ \underline{\times 9} \end{array}$

$\begin{array}{r} 5 \\ \underline{\times 4} \end{array}$ $\begin{array}{r} 9 \\ \underline{\times 2} \end{array}$ $\begin{array}{r} 7 \\ \underline{\times 5} \end{array}$

$\begin{array}{r} 8 \\ \times\ \underline{\quad} \\ 40 \end{array}$ $\begin{array}{r} 9 \\ \underline{\times 4} \end{array}$ $\begin{array}{r} 7 \\ \times\ \underline{\quad} \\ 21 \end{array}$

$\begin{array}{r} 9 \\ \underline{\times 5} \end{array}$ $\begin{array}{r} 6 \\ \times\ \underline{\quad} \\ 24 \end{array}$ $\begin{array}{r} 7 \\ \underline{\times 4} \end{array}$

6, 12, 18, 24, 30, 36

6

12

18

24

30

36

42

48

54

32

6

7

6

45

9

Count by 6's:

6, 12, ___, 24, ___, 36

Counting by 6's gives us the answers to multiplying by 6.

Check:

6 × 1 = ___

6 × 2 = ___ (6 + 6 = 12)

6 × 3 = ___ (6 + 6 + 6 = 18)

6 × 4 = ___ (6 + 6 + 6 + 6 = 24)

6 × 5 = ___

6 × 6 = ___

6 × 7 = ___

6 × 8 = ___

6 × 9 = ___

$\begin{array}{r} 8 \\ \times\ 4 \\ \hline \end{array}$ $\begin{array}{r} 6 \\ \times\ \_\_ \\ \hline 36 \end{array}$ $\begin{array}{r} \_\_ \\ \times\ 6 \\ \hline 42 \end{array}$

$\begin{array}{r} 8 \\ \times\ \_\_ \\ \hline 48 \end{array}$ $\begin{array}{r} 9 \\ \times\ 5 \\ \hline \end{array}$ $\begin{array}{r} \_\_ \\ \times\ 6 \\ \hline 54 \end{array}$

7, 14, 21, 28, 35, 42, 49	Count by 7's: 7, 14, 21, ___, 35, ___, 49
7 1 14 3 28 35 42 49 56 63	Counting by 7's gives us the answers to multiplying by ___. 7 × ___ = 7 Check: 7 × 2 = ___ (7 + 7 = 14) 7 × ___ = 21 (7 + 7 + 7 = 21) 7 × 4 = ___ (7 + 7 + 7 + 7 = 28) 7 × 5 = ___ 7 × 6 = ___ 7 × 7 = ___ 7 × 8 = ___ 7 × 9 = ___
16 30 21	$\begin{array}{r}8\\ \times 2\\ \hline\end{array}$ $\begin{array}{r}6\\ \times 5\\ \hline\end{array}$ $\begin{array}{r}7\\ \times 3\\ \hline\end{array}$
7 9 7	$\begin{array}{r}8\\ \times \underline{\quad}\\ \hline 56\end{array}$ $\begin{array}{r}\underline{\quad}\\ \times 7\\ \hline 63\end{array}$ $\begin{array}{r}7\\ \times \underline{\quad}\\ \hline 49\end{array}$

8, 16, 24, 32, 40, 48, 56	Count by 8's: 8, 16, ___, 32, 40, ___, 56
8 1 8 3 32 40 48 56 64 72	Counting by 8's gives us the answers to multiplying by __. 8 × ___ = 8 Check: ___ × 2 = 16 (8 + 8 = 16) 8 × ___ = 24 (8 + 8 + 8 = 24) 8 × 4 = ___ (8 + 8 + 8 + 8 = 32) 8 × 5 = ___ 8 × 6 = ___ 8 × 7 = ___ 8 × 8 = ___ 8 × 9 = ___
5 42 8	$\begin{array}{r} 8 \\ \times\ \_\_ \\ \hline 40 \end{array}$ $\begin{array}{r} 7 \\ \times\ 6 \\ \hline \end{array}$ $\begin{array}{r} \_\_ \\ \times\ 4 \\ \hline 32 \end{array}$
36 8 72	$\begin{array}{r} 6 \\ \times\ 6 \\ \hline \end{array}$ $\begin{array}{r} 8 \\ \times\ \_\_ \\ \hline 64 \end{array}$ $\begin{array}{r} 9 \\ \times\ 8 \\ \hline \end{array}$

9, 18, 27, 36, 45, 54, 63	Count by 9's: 9, 18, ___, 36, 45, ___, 63
9 1 2 3 36 45 54 63 72 81	Counting by 9's gives us the answers to multiplying by ___. 9 × ___ = 9 — Check: 9 × ___ = 18 — (9 + 9 = 18) 9 × ___ = 27 — (9 + 9 + 9 = 27) 9 × 4 = ___ — (9 + 9 + 9 + 9 = 36) 9 × 5 = ___ 9 × 6 = ___ 9 × 7 = ___ 9 × 8 = ___ 9 × 9 = ___
4 6 40	$\begin{array}{r} 9 \\ \times\ \underline{\quad} \\ \hline 36 \end{array}$ $\qquad$ $\begin{array}{r} 9 \\ \times\ \underline{\quad} \\ \hline 54 \end{array}$ $\qquad$ $\begin{array}{r} 8 \\ \times\ 5 \\ \hline \end{array}$
7 49 9	$\begin{array}{r} 9 \\ \times\ \underline{\quad} \\ \hline 63 \end{array}$ $\qquad$ $\begin{array}{r} 7 \\ \times\ 7 \\ \hline \end{array}$ $\qquad$ $\begin{array}{r} 9 \\ \times\ \underline{\quad} \\ \hline 81 \end{array}$

1

4

9

16

25

36

49

64

81

35

54

56

30

72

48

63

32

45

1 × 1	2 × 2	3 × 3
4 × 4	5 × 5	6 × 6
7 × 7	8 × 8	9 × 9
5 × 7	6 × 9	8 × 7
6 × 5	9 × 8	8 × 6
9 × 7	8 × 4	5 × 9

28

42

54

9

40

36

56

81

20

48

63

72

TEST

$\begin{array}{r}4\\ \times 7\\ \hline\end{array}$ $\begin{array}{r}7\\ \times 6\\ \hline\end{array}$ $\begin{array}{r}9\\ \times 6\\ \hline\end{array}$

$\begin{array}{r}1\\ \times 9\\ \hline\end{array}$ $\begin{array}{r}8\\ \times 5\\ \hline\end{array}$ $\begin{array}{r}9\\ \times 4\\ \hline\end{array}$

$\begin{array}{r}8\\ \times 7\\ \hline\end{array}$ $\begin{array}{r}9\\ \times 9\\ \hline\end{array}$ $\begin{array}{r}5\\ \times 4\\ \hline\end{array}$

$\begin{array}{r}6\\ \times 8\\ \hline\end{array}$ $\begin{array}{r}7\\ \times 9\\ \hline\end{array}$ $\begin{array}{r}9\\ \times 8\\ \hline\end{array}$

0

$0 + 0 = 0$

means

two 0's = 0

so 2 × 0 = ___

0

$0 + 0 + 0 + 0 = 0$

means

four 0's = 0

so 4 × 0 = ___

0

0

0

0

0

0

0

0

0

4

$\underline{4}0$

---

any number × 0 = 0

546 × 0 = ___

26,914 × 0 = ___

$\begin{array}{r} 6 \\ \times\, 0 \\ \hline \end{array}$ $\begin{array}{r} 0 \\ \times\, 4 \\ \hline \end{array}$ $\begin{array}{r} 0 \\ \times\, 9 \\ \hline \end{array}$

$\begin{array}{r} 3 \\ \times\, 0 \\ \hline \end{array}$ $\begin{array}{r} 0 \\ \times\, 8 \\ \hline \end{array}$ $\begin{array}{r} 0 \\ \times\, 0 \\ \hline \end{array}$

Always multiply from the right.

$$\begin{array}{r} 2\ 0 \\ \times\quad 2 \\ \hline ? \end{array}$$

2 × 0 = ___

$$\begin{array}{r} 2\ 0 \\ \times\quad 2 \\ \hline ?\ 0 \end{array}$$

2 × 2 = ___

$$\begin{array}{r} 2\ 0 \\ \times\quad 2 \\ \hline \underline{\quad}\ 0 \end{array}$$

4	$\begin{array}{r} 1\ 2 \\ \times\ \ \ 2 \\ \hline ? \end{array}$ $2 \times 2 = \_\_\_$
2	$\begin{array}{r} 1\ 2 \\ \times\ \ \ 2 \\ \hline ?\ 4 \end{array}$ $2 \times 1 = \_\_\_$
$\underline{2}4$	$\begin{array}{r} 1\ 2 \\ \times\ \ \ 2 \\ \hline \_\_\ 4 \end{array}$
3	$\begin{array}{r} 2\ 3 \\ \times\ \ \ 3 \\ \hline ? \end{array}$ $3 \times \_\_\_ = 9$
6	$3 \times 2 = \_\_\_$
$\underline{6}9$	$\begin{array}{r} 2\ 3 \\ \times\ \ \ 3 \\ \hline \_\_\ 9 \end{array}$
$\underline{8}2$	$\begin{array}{r} 4\ 1 \\ \times\ \ \ 2 \\ \hline \_\_\ 2 \end{array}$
$\underline{9}3$	$\begin{array}{r} 3\ 1 \\ \times\ \ \ 3 \\ \hline \_\_\ 3 \end{array}$

36

12

42

40

28

3

39

0

add

8

6

48

7

9

63

Multiply: Check by adding:

$$\begin{array}{r} 1\ 2 \\ \times\quad 3 \\ \hline \_\ 6 \end{array} \quad \xleftrightarrow{\text{same number}} \quad \begin{array}{r} 1\ 2 \\ 1\ 2 \\ +\ \_\ \_ \\ \hline 3\ 6 \end{array}$$

$$\begin{array}{r} 2\ 1 \\ \times\quad 2 \\ \hline \end{array} \qquad \begin{array}{r} 1\ 0 \\ \times\quad 4 \\ \hline \end{array} \qquad \begin{array}{r} 1\ 4 \\ \times\quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 1\ 1 \\ \times\quad \_\_ \\ \hline 3\ 3 \end{array} \qquad \begin{array}{r} 1\ 3 \\ \times\quad 3 \\ \hline \end{array} \qquad \begin{array}{r} 3\ 2 \\ \times\quad 0 \\ \hline \end{array}$$

Multiplication is a short way to $\left\langle \begin{array}{l} \text{add.} \\ \text{subtract.} \end{array} \right.$

If you forget what 6 × 8 is,

you can add __ six times:

8 + 8 + 8 + 8 + 8 + 8 = 48

Or you can add __ eight times:

6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 = ____

If you forget what 7 × 9 is,

you can add __ nine times,

or you can add __ seven times.

7 × 9 = ____

adding	We can always check multiplication by adding. / subtracting.
69 68 48	$\begin{array}{r} 23 \\ \times\ \ 3 \\ \hline \end{array}$ $\qquad$ $\begin{array}{r} 34 \\ \times\ \ 2 \\ \hline \end{array}$ $\qquad$ $\begin{array}{r} 24 \\ \times\ \ 2 \\ \hline \end{array}$
60 99 80	$\begin{array}{r} 30 \\ \times\ \ 2 \\ \hline \end{array}$ $\qquad$ $\begin{array}{r} 33 \\ \times\ \ 3 \\ \hline \end{array}$ $\qquad$ $\begin{array}{r} 40 \\ \times\ \ 2 \\ \hline \end{array}$
90 88 56	$\begin{array}{r} 10 \\ \times\ \ 9 \\ \hline \end{array}$ $\qquad$ $\begin{array}{r} 11 \\ \times\ \ 8 \\ \hline \end{array}$ $\qquad$ $\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array}$
99 $\begin{array}{r} 33 \\ 33 \\ +\underline{33} \\ 99 \end{array}$	Multiply: $\begin{array}{r} 33 \\ \times\ \ 3 \\ \hline \end{array}$ $\xleftrightarrow{\text{same number}}$ Check: $\begin{array}{r} 33 \\ 33 \\ +\underline{\ \ \ \ } \\ 99 \end{array}$
84 wrong $\underline{8}4$	$\begin{array}{r} 42 \\ \times\ \ 2 \\ \hline 74 \end{array}$ $\qquad$ Check: $\begin{array}{r} 42 \\ +42 \\ \hline \end{array}$ The answer 74 is wrong. / right. The right answer is __4.

48	$\begin{array}{r} 12 \\ \times\ 4 \\ \hline \end{array}$
39	$\begin{array}{r} 39 \\ \times\ 1 \\ \hline \end{array}$
96	$\begin{array}{r} 32 \\ \times\ 3 \\ \hline \end{array}$
88	$\begin{array}{r} 44 \\ \times\ 2 \\ \hline \end{array}$
86	$\begin{array}{r} 43 \\ \times\ 2 \\ \hline \end{array}$
72	$\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$
right	Always multiply from the left. right.
6	$\begin{array}{r} 123 \\ \times\ \ 2 \\ \hline ? \end{array}$ 2 × 3 = ____
4	2 × 2 = ____
2	2 × 1 = ____
$\underline{2}46$	$\begin{array}{r} 123 \\ \times\ \ 2 \\ \hline \_\ 46 \end{array}$
6	$\begin{array}{r} 312 \\ \times\ \ 3 \\ \hline ? \end{array}$ 3 × 2 = ____
3	3 × 1 = ____
9	3 × 3 = ____
$\underline{93}6$	$\begin{array}{r} 312 \\ \times\ \ 3 \\ \hline \_\ \_\ 6 \end{array}$

428

480

306

826

486

484

0

82

0

87

69

0

72

242

648

0

693

8,517

$$\begin{array}{r} 214 \\ \times\quad 2 \\ \hline \_\,28 \end{array} \qquad \begin{array}{r} 120 \\ \times\quad 4 \\ \hline \_\,80 \end{array} \qquad \begin{array}{r} 102 \\ \times\quad 3 \\ \hline \_\,\_\,6 \end{array}$$

$$\begin{array}{r} 413 \\ \times\quad 2 \\ \hline \_\,\_\,6 \end{array} \qquad \begin{array}{r} 243 \\ \times\quad 2 \\ \hline \end{array} \qquad \begin{array}{r} 121 \\ \times\quad 4 \\ \hline \end{array}$$

TEST

$$\begin{array}{r} 6 \\ \times 0 \\ \hline \end{array} \qquad \begin{array}{r} 41 \\ \times\quad 2 \\ \hline \end{array} \qquad \begin{array}{r} 0 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 87 \\ \times\quad 1 \\ \hline \end{array} \qquad \begin{array}{r} 23 \\ \times\quad 3 \\ \hline \end{array} \qquad \begin{array}{r} 468 \\ \times\quad 0 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array} \qquad \begin{array}{r} 121 \\ \times\quad 2 \\ \hline \end{array} \qquad \begin{array}{r} 324 \\ \times\quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 17{,}693 \\ \times\qquad 0 \\ \hline \end{array} \qquad \begin{array}{r} 231 \\ \times\quad 3 \\ \hline \end{array} \qquad \begin{array}{r} 8{,}517 \\ \times\qquad 1 \\ \hline \end{array}$$

396

840

488

900

880

777

846

909

693

888

969

309

684

768

639

868

408

0

$\begin{array}{r} 132 \\ \times \quad 3 \\ \hline \end{array}$	$\begin{array}{r} 210 \\ \times \quad 4 \\ \hline \end{array}$	$\begin{array}{r} 122 \\ \times \quad 4 \\ \hline \end{array}$
$\begin{array}{r} 100 \\ \times \quad 9 \\ \hline \end{array}$	$\begin{array}{r} 110 \\ \times \quad 8 \\ \hline \end{array}$	$\begin{array}{r} 111 \\ \times \quad 7 \\ \hline \end{array}$
$\begin{array}{r} 423 \\ \times \quad 2 \\ \hline \end{array}$	$\begin{array}{r} 101 \\ \times \quad 9 \\ \hline \end{array}$	$\begin{array}{r} 231 \\ \times \quad 3 \\ \hline \end{array}$
$\begin{array}{r} 222 \\ \times \quad 4 \\ \hline \end{array}$	$\begin{array}{r} 323 \\ \times \quad 3 \\ \hline \end{array}$	$\begin{array}{r} 103 \\ \times \quad 3 \\ \hline \end{array}$
$\begin{array}{r} 342 \\ \times \quad 2 \\ \hline \end{array}$	$\begin{array}{r} 768 \\ \times \quad 1 \\ \hline \end{array}$	$\begin{array}{r} 213 \\ \times \quad 3 \\ \hline \end{array}$
$\begin{array}{r} 434 \\ \times \quad 2 \\ \hline \end{array}$	$\begin{array}{r} 204 \\ \times \quad 2 \\ \hline \end{array}$	$\begin{array}{r} 439 \\ \times \quad 0 \\ \hline \end{array}$

Start at the right :

2,468

8,206

$$\begin{array}{r} 1,234 \\ \times\quad 2 \\ \hline \_,468 \end{array} \qquad\qquad \begin{array}{r} 4,103 \\ \times\quad 2 \\ \hline \_,206 \end{array}$$

6,930

6,824

$$\begin{array}{r} 2,310 \\ \times\quad 3 \\ \hline \_,\_30 \end{array} \qquad\qquad \begin{array}{r} 3,412 \\ \times\quad 2 \\ \hline \_,\_24 \end{array}$$

8,624

4,804

$$\begin{array}{r} 4,312 \\ \times\quad 2 \\ \hline \_,\_\_4 \end{array} \qquad\qquad \begin{array}{r} 1,201 \\ \times\quad 4 \\ \hline \_,\_\_4 \end{array}$$

9,063

4,862

$$\begin{array}{r} 3,021 \\ \times\quad 3 \\ \hline \end{array} \qquad\qquad \begin{array}{r} 2,431 \\ \times\quad 2 \\ \hline \end{array}$$

6,936

8,046

$$\begin{array}{r} 2,312 \\ \times\quad 3 \\ \hline \end{array} \qquad\qquad \begin{array}{r} 4,023 \\ \times\quad 2 \\ \hline \end{array}$$

9,363

8,400

$$\begin{array}{r} 3,121 \\ \times\quad 3 \\ \hline \end{array} \qquad\qquad \begin{array}{r} 2,100 \\ \times\quad 4 \\ \hline \end{array}$$

24,682

48,006

93,690

40,848

46,802

82,064

44,848

80,648

39,696

88,048

63,906

0

Start at the right :

$$\begin{array}{r} 12,341 \\ \times \qquad 2 \\ \hline \underline{\ \ }\,4,682 \end{array} \qquad \begin{array}{r} 24,003 \\ \times \qquad 2 \\ \hline \underline{\ \ }\,8,006 \end{array}$$

$$\begin{array}{r} 31,230 \\ \times \qquad 3 \\ \hline \underline{\ \ }\,\underline{\ \ },690 \end{array} \qquad \begin{array}{r} 10,212 \\ \times \qquad 4 \\ \hline \underline{\ \ }\,\underline{\ \ },848 \end{array}$$

$$\begin{array}{r} 23,401 \\ \times \qquad 2 \\ \hline \underline{\ \ }\,\underline{\ \ },\underline{\ \ }\,02 \end{array} \qquad \begin{array}{r} 41,032 \\ \times \qquad 2 \\ \hline \underline{\ \ }\,\underline{\ \ },\underline{\ \ }\,64 \end{array}$$

$$\begin{array}{r} 11,212 \\ \times \qquad 4 \\ \hline \underline{\ \ }\,\underline{\ \ },\underline{\ \ }\,\underline{\ \ }\,8 \end{array} \qquad \begin{array}{r} 40,324 \\ \times \qquad 2 \\ \hline \underline{\ \ }\,\underline{\ \ },\underline{\ \ }\,\underline{\ \ }\,8 \end{array}$$

$$\begin{array}{r} 13,232 \\ \times \qquad 3 \\ \hline \end{array} \qquad \begin{array}{r} 22,012 \\ \times \qquad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 21,302 \\ \times \qquad 3 \\ \hline \end{array} \qquad \begin{array}{r} 72,560 \\ \times \qquad 0 \\ \hline \end{array}$$

$\underline{6}46,840$

$\underline{3}06,903$

$\underline{4}\underline{6}8,204$

$\underline{9}\underline{3}6,093$

$\underline{8}\underline{4}\underline{0},488$

$\underline{3}\underline{0}\underline{9},\underline{6}96$

$\underline{9}\underline{9}\underline{0},\underline{9}\underline{0}9$

800,880

864,268

693,069

Start at the right :

$$\begin{array}{r} 323,420 \\ \times \qquad 2 \\ \hline \_\,46,840 \end{array} \qquad \begin{array}{r} 102,301 \\ \times \qquad 3 \\ \hline \_\,06,903 \end{array}$$

$$\begin{array}{r} 234,102 \\ \times \qquad 2 \\ \hline \_\,\_\,8,204 \end{array} \qquad \begin{array}{r} 312,031 \\ \times \qquad 3 \\ \hline \_\,\_\,6,093 \end{array}$$

$$\begin{array}{r} 210,122 \\ \times \qquad 4 \\ \hline \_\,\_\,\_,488 \end{array} \qquad \begin{array}{r} 103,232 \\ \times \qquad 3 \\ \hline \_\,\_\,\_,\_\,96 \end{array}$$

$$\begin{array}{r} 110,101 \\ \times \qquad 9 \\ \hline \_\,\_\,\_,\_\,\_\,9 \end{array} \qquad \begin{array}{r} 100,110 \\ \times \qquad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 432,134 \\ \times \qquad 2 \\ \hline \end{array} \qquad \begin{array}{r} 231,023 \\ \times \qquad 3 \\ \hline \end{array}$$

Start at the right :

$$\begin{array}{r} 5\ 3 \\ \times\ \ \ 3 \\ \hline ? \end{array}$$

3 × 3 = ___

3 × 5 = ___

$$\begin{array}{r} 5\ 3 \\ \times\ \ \ 3 \\ \hline \underline{\quad}\ 5\ 9 \end{array}$$

9

15

$\underline{1}59$

$$\begin{array}{r} 6\ 2 \\ \times\ \ \ 4 \\ \hline \underline{\quad}\ \underline{\quad}\ 8 \end{array} \qquad \begin{array}{r} 7\ 2 \\ \times\ \ \ 3 \\ \hline \underline{\quad}\ \underline{\quad}\ 6 \end{array} \qquad \begin{array}{r} 2\ 0 \\ \times\ \ \ 9 \\ \hline \underline{\quad}\ \underline{\quad}\ 0 \end{array}$$

$\underline{2}\underline{4}8$

$\underline{2}\underline{1}6$

$\underline{1}\underline{8}0$

$$\begin{array}{r} 8\ 4 \\ \times\ \ \ 2 \\ \hline \end{array} \qquad \begin{array}{r} 3\ 1 \\ \times\ \ \ 8 \\ \hline \end{array} \qquad \begin{array}{r} 4\ 1 \\ \times\ \ \ 7 \\ \hline \end{array}$$

168

248

287

$$\begin{array}{r} 2\ 1 \\ \times\ \ \ 8 \\ \hline \end{array} \qquad \begin{array}{r} 5\ 2 \\ \times\ \ \ 4 \\ \hline \end{array} \qquad \begin{array}{r} 3\ 0 \\ \times\ \ \ 5 \\ \hline \end{array}$$

168

208

150

$$\begin{array}{r} 9\ 2 \\ \times\ \ \ 4 \\ \hline \end{array} \qquad \begin{array}{r} 3\ 2 \\ \times\ \ \ 4 \\ \hline \end{array} \qquad \begin{array}{r} 4\ 2 \\ \times\ \ \ 4 \\ \hline \end{array}$$

368

128

168

480

864

9,603

8,040

63,906

80,846

900,990

609,960

0

186

148

360

TEST

$$\begin{array}{r} 120 \\ \times\quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 432 \\ \times\quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3,201 \\ \times\quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2,010 \\ \times\quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 21,302 \\ \times\quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 40,423 \\ \times\quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 100,110 \\ \times\quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 203,320 \\ \times\quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 876,501 \\ \times\quad 0 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ \times\quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 74 \\ \times\quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ \times\quad 9 \\ \hline \end{array}$$

3

2

12

$\underline{1},\underline{2}63$

$\underline{1},\underline{5}05$

$\underline{8},\underline{1}90$

$\underline{1},\underline{8}\underline{9}9$

3,284

2,048

2,408

2,196

1,680

6,307

4,866

4,500

1,869

Start at the right :

$$\begin{array}{r} 4\ 2\ 1 \\ \times\qquad 3 \\ \hline ? \end{array}$$

3 × 1 = __

3 × __ = 6

3 × 4 = __ __

$$\begin{array}{r} 4\ 2\ 1 \\ \times\qquad 3 \\ \hline \underline{\ \ },\underline{\ \ }6\ 3 \end{array}$$

$$\begin{array}{r} 3\ 0\ 1 \\ \times\qquad 5 \\ \hline \underline{\ \ },\underline{\ \ }\ 0\ 5 \end{array} \qquad \begin{array}{r} 9\ 1\ 0 \\ \times\qquad 9 \\ \hline \underline{\ \ },\underline{\ \ }\ 9\ 0 \end{array} \qquad \begin{array}{r} 2\ 1\ 1 \\ \times\qquad 9 \\ \hline \underline{\ \ },\underline{\ \ }\ \underline{\ \ }\ 9 \end{array}$$

$$\begin{array}{r} 8\ 2\ 1 \\ \times\qquad 4 \\ \hline \end{array} \qquad \begin{array}{r} 5\ 1\ 2 \\ \times\qquad 4 \\ \hline \end{array} \qquad \begin{array}{r} 6\ 0\ 2 \\ \times\qquad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7\ 3\ 2 \\ \times\qquad 3 \\ \hline \end{array} \qquad \begin{array}{r} 2\ 1\ 0 \\ \times\qquad 8 \\ \hline \end{array} \qquad \begin{array}{r} 9\ 0\ 1 \\ \times\qquad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8\ 1\ 1 \\ \times\qquad 6 \\ \hline \end{array} \qquad \begin{array}{r} 9\ 0\ 0 \\ \times\qquad 5 \\ \hline \end{array} \qquad \begin{array}{r} 6\ 2\ 3 \\ \times\qquad 3 \\ \hline \end{array}$$

18,268 15,609	$\begin{array}{r} 9,134 \\ \times \quad 2 \\ \hline \_\_,268 \end{array}$	$\begin{array}{r} 5,203 \\ \times \quad 3 \\ \hline \_\_,609 \end{array}$
24,639 18,900	$\begin{array}{r} 8,213 \\ \times \quad 3 \\ \hline \_\_,\_39 \end{array}$	$\begin{array}{r} 2,100 \\ \times \quad 9 \\ \hline \_\_,\_\_0 \end{array}$
24,088 36,848	$\begin{array}{r} 3,011 \\ \times \quad 8 \\ \hline \end{array}$	$\begin{array}{r} 9,212 \\ \times \quad 4 \\ \hline \end{array}$
28,707 35,055	$\begin{array}{r} 4,101 \\ \times \quad 7 \\ \hline \end{array}$	$\begin{array}{r} 7,011 \\ \times \quad 5 \\ \hline \end{array}$
15,969 54,060	$\begin{array}{r} 5,323 \\ \times \quad 3 \\ \hline \end{array}$	$\begin{array}{r} 9,010 \\ \times \quad 6 \\ \hline \end{array}$
24,804 72,909	$\begin{array}{r} 6,201 \\ \times \quad 4 \\ \hline \end{array}$	$\begin{array}{r} 8,101 \\ \times \quad 9 \\ \hline \end{array}$
12,939 16,888	$\begin{array}{r} 4,313 \\ \times \quad 3 \\ \hline \end{array}$	$\begin{array}{r} 2,111 \\ \times \quad 8 \\ \hline \end{array}$

162,864

186,060

$$\begin{array}{r} 81{,}432 \\ \times \qquad 2 \\ \hline \_\_\_{,}\,864 \end{array}$$

$$\begin{array}{r} 31{,}010 \\ \times \qquad 6 \\ \hline \_\_\_{,}\,060 \end{array}$$

180,909

279,693

$$\begin{array}{r} 20{,}101 \\ \times \qquad 9 \\ \hline \_\_\_{,}\,909 \end{array}$$

$$\begin{array}{r} 93{,}231 \\ \times \qquad 3 \\ \hline \_\_\_{,}\,\_93 \end{array}$$

288,048

240,880

$$\begin{array}{r} 72{,}012 \\ \times \qquad 4 \\ \hline \_\_\_\_{,}\,\_\_\_8 \end{array}$$

$$\begin{array}{r} 30{,}110 \\ \times \qquad 8 \\ \hline \end{array}$$

189,609

287,700

$$\begin{array}{r} 63{,}203 \\ \times \qquad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 41{,}100 \\ \times \qquad 7 \\ \hline \end{array}$$

188,642

450,909

$$\begin{array}{r} 94{,}321 \\ \times \qquad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 50{,}101 \\ \times \qquad 9 \\ \hline \end{array}$$

249,693

284,848

$$\begin{array}{r} 83{,}231 \\ \times \qquad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 71{,}212 \\ \times \qquad 4 \\ \hline \end{array}$$

728,008

630,000

$$\begin{array}{r} 91{,}001 \\ \times \qquad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 70{,}000 \\ \times \qquad 9 \\ \hline \end{array}$$

$\underline{1},\underline{4}84,602$

$\underline{2},\underline{1}\underline{9}6,399$

$\underline{1},\underline{8}\underline{0}\underline{9},900$

$\underline{1},\underline{8}\underline{4}\underline{8},\underline{6}28$

1,896,390

5,677,070

2,769,396

1,284,808

1,686,468

6,400,888

1,688,404

1,539,690

1,886,428

2,496,309

$$\begin{array}{r} 742,301 \\ \times \qquad 2 \\ \hline \_\_,\_\_84,602 \end{array} \qquad \begin{array}{r} 732,133 \\ \times \qquad 3 \\ \hline \_\_,\_\_\_6,399 \end{array}$$

$$\begin{array}{r} 201,100 \\ \times \qquad 9 \\ \hline \_\_,\_\_\_\_,900 \end{array} \qquad \begin{array}{r} 924,314 \\ \times \qquad 2 \\ \hline \_\_,\_\_\_\_,\_\_28 \end{array}$$

$$\begin{array}{r} 632,130 \\ \times \qquad 3 \\ \hline \end{array} \qquad \begin{array}{r} 811,010 \\ \times \qquad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 923,132 \\ \times \qquad 3 \\ \hline \end{array} \qquad \begin{array}{r} 321,202 \\ \times \qquad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 843,234 \\ \times \qquad 2 \\ \hline \end{array} \qquad \begin{array}{r} 800,111 \\ \times \qquad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 422,101 \\ \times \qquad 4 \\ \hline \end{array} \qquad \begin{array}{r} 513,230 \\ \times \qquad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 943,214 \\ \times \qquad 2 \\ \hline \end{array} \qquad \begin{array}{r} 832,103 \\ \times \qquad 3 \\ \hline \end{array}$$

249

129

459

148

108

189

279

1,648

7,200

63,077

728,008

155,050

128,264

2,196,399

1,886,428

1,688,404

1,539,690

$\begin{array}{r} 83 \\ \times\ \ 3 \\ \hline \end{array}$ $\begin{array}{r} 43 \\ \times\ \ 3 \\ \hline \end{array}$ $\begin{array}{r} 51 \\ \times\ \ 9 \\ \hline \end{array}$

$\begin{array}{r} 74 \\ \times\ \ 2 \\ \hline \end{array}$ $\begin{array}{r} 54 \\ \times\ \ 2 \\ \hline \end{array}$ $\begin{array}{r} 63 \\ \times\ \ 3 \\ \hline \end{array}$

$\begin{array}{r} 93 \\ \times\ \ 3 \\ \hline \end{array}$ $\begin{array}{r} 412 \\ \times\ \ 4 \\ \hline \end{array}$ $\begin{array}{r} 800 \\ \times\ \ 9 \\ \hline \end{array}$

$\begin{array}{r} 9,011 \\ \times\ \ 7 \\ \hline \end{array}$ $\begin{array}{r} 91,001 \\ \times\ \ 8 \\ \hline \end{array}$

$\begin{array}{r} 31,010 \\ \times\ \ 5 \\ \hline \end{array}$ $\begin{array}{r} 64,132 \\ \times\ \ 2 \\ \hline \end{array}$

$\begin{array}{r} 732,133 \\ \times\ \ 3 \\ \hline \end{array}$ $\begin{array}{r} 943,214 \\ \times\ \ 2 \\ \hline \end{array}$

$\begin{array}{r} 422,101 \\ \times\ \ 4 \\ \hline \end{array}$ $\begin{array}{r} 513,230 \\ \times\ \ 3 \\ \hline \end{array}$

1,839

7,209

14,086

63,077

249,603

306,060

2,169,396

1,808,628

984,763

7,200,000

0

1,408,608

TEST

$\begin{array}{r} 613 \\ \times\quad 3 \\ \hline \end{array}$

$\begin{array}{r} 801 \\ \times\quad 9 \\ \hline \end{array}$

$\begin{array}{r} 7{,}043 \\ \times\quad 2 \\ \hline \end{array}$

$\begin{array}{r} 9{,}011 \\ \times\quad 7 \\ \hline \end{array}$

$\begin{array}{r} 83{,}201 \\ \times\quad 3 \\ \hline \end{array}$

$\begin{array}{r} 51{,}010 \\ \times\quad 6 \\ \hline \end{array}$

$\begin{array}{r} 723{,}132 \\ \times\quad 3 \\ \hline \end{array}$

$\begin{array}{r} 904{,}314 \\ \times\quad 2 \\ \hline \end{array}$

$\begin{array}{r} 984{,}763 \\ \times\quad 1 \\ \hline \end{array}$

$\begin{array}{r} 800{,}000 \\ \times\quad 9 \\ \hline \end{array}$

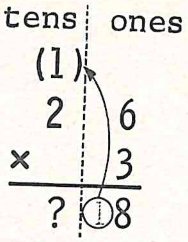
$\begin{array}{r} 819{,}297 \\ \times\quad 0 \\ \hline \end{array}$

$\begin{array}{r} 704{,}304 \\ \times\quad 2 \\ \hline \end{array}$

$$\begin{array}{r} 2\ 6 \\ \times\quad 3 \\ \hline ? \end{array}$$

3 × 6 = ___

18 = 1 ten and ___ ones



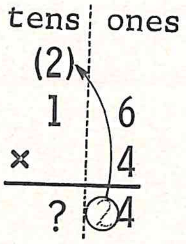
3 × 2 = ___

6 + 1 = ___

$$\begin{array}{r} 2\ 6 \\ \times\quad 3 \\ \hline \_\_\ 8 \end{array}$$

$$\begin{array}{r} 1\ 6 \\ \times\quad 4 \\ \hline ? \end{array}$$

4 × 6 = ___



4 × 1 = ___

4 + 2 = ___

$$\begin{array}{r} 1\ 6 \\ \times\quad 4 \\ \hline \_\_\ 4 \end{array}$$

18

8

6

7

$\underline{7}8$

24

4

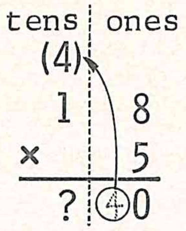
6

$\underline{6}4$

$$\begin{array}{r} 1\ 8 \\ \times\quad 5 \\ \hline ? \end{array}$$

5 × 8 = ___

40



5 × 1 = ___

5

5 + 4 = ___

9

$$\begin{array}{r} 1\ 8 \\ \times\quad 5 \\ \hline \_\_\ 0 \end{array}$$

$\underline{9}0$

$$\begin{array}{r} (2)\quad \\ 1\ 9 \\ \times\quad 3 \\ \hline \_\_\ 7 \end{array} \qquad \begin{array}{r} (1)\quad \\ 3\ 8 \\ \times\quad 2 \\ \hline \_\_\ 6 \end{array} \qquad \begin{array}{r} (1)\quad \\ 1\ 6 \\ \times\quad 3 \\ \hline \_\_\ 8 \end{array}$$

$\underline{5}7$

$\underline{7}6$

$\underline{4}8$

$$\begin{array}{r} (1)\quad \\ 3\ 7 \\ \times\ 2 \\ \hline \_\_\ 4 \end{array} \qquad \begin{array}{r} (2)\quad \\ 1\ 5 \\ \times\quad 4 \\ \hline \_\_\ 0 \end{array} \qquad \begin{array}{r} (2)\quad \\ 1\ 3 \\ \times\quad 7 \\ \hline \_\_\ 1 \end{array}$$

$\underline{7}4$

$\underline{6}0$

$\underline{9}1$

$$\begin{array}{r} (1)\quad \\ 1\ 4 \\ \times\quad 3 \\ \hline \_\_\ 2 \end{array} \qquad \begin{array}{r} (1)\quad \\ 4\ 7 \\ \times\quad 2 \\ \hline \_\_\ 4 \end{array} \qquad \begin{array}{r} (2)\quad \\ 2\ 9 \\ \times\quad 3 \\ \hline \_\_\ 7 \end{array}$$

$\underline{4}2$

$\underline{9}4$

$\underline{8}7$

72 84 98	(1) $\begin{array}{r} 36 \\ \times\ \ 2 \\ \hline \underline{\quad}\,2 \end{array}$	(2) $\begin{array}{r} 28 \\ \times\ \ 3 \\ \hline \underline{\quad}\,4 \end{array}$	$\begin{array}{r} 49 \\ \times\ \ 2 \\ \hline \underline{\quad}\,8 \end{array}$
34 52 54	$\begin{array}{r} 17 \\ \times\ \ 2 \\ \hline \underline{\quad}\,4 \end{array}$	$\begin{array}{r} 13 \\ \times\ \ 4 \\ \hline \underline{\quad}\,2 \end{array}$	$\begin{array}{r} 18 \\ \times\ \ 3 \\ \hline \underline{\quad}\,4 \end{array}$
70 54 96	$\begin{array}{r} 14 \\ \times\ \ 5 \\ \hline \end{array}$	$\begin{array}{r} 27 \\ \times\ \ 2 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ \times\ \ 6 \\ \hline \end{array}$
92 84 96	$\begin{array}{r} 23 \\ \times\ \ 4 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ \times\ \ 7 \\ \hline \end{array}$	$\begin{array}{r} 48 \\ \times\ \ 2 \\ \hline \end{array}$
76 91 72	$\begin{array}{r} 19 \\ \times\ \ 4 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ \times\ \ 7 \\ \hline \end{array}$	$\begin{array}{r} 24 \\ \times\ \ 3 \\ \hline \end{array}$
92 80 96	$\begin{array}{r} 46 \\ \times\ \ 2 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ \times\ \ 5 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ \times\ \ 8 \\ \hline \end{array}$

16	$\begin{array}{r} 7\ 8 \\ \times\quad 2 \\ \hline ? \end{array}$ 2 × 8 = ____
14	$\begin{array}{r} (1)\ \ \\ 7\ 8 \\ \times\quad 2 \\ \hline ?\ 6 \end{array}$ 2 × 7 = ____
15	14 + 1 = ____
$\underline{1}56$	$\begin{array}{r} 7\ 8 \\ \times\quad 2 \\ \hline \underline{\quad}\ 5\ 6 \end{array}$
18	$\begin{array}{r} 6\ 9 \\ \times\quad 2 \\ \hline ? \end{array}$ 2 × 9 = ____
12	$\begin{array}{r} (1)\ \ \\ 6\ 9 \\ \times\quad 2 \\ \hline ?\ 8 \end{array}$ 2 × 6 = ____
13	12 + 1 = ____
$\underline{1}\underline{3}8$	$\begin{array}{r} 6\ 9 \\ \times\quad 2 \\ \hline \underline{\quad}\ \underline{\quad}\ 8 \end{array}$

21

12

14

141

102

216

195

184

375

258

152

570

496

4 7
× 3
?

3 × 7 = ___

(2)
4 7
× 3
? 1

3 × 4 = ___
12 + 2 = ___

4 7
× 3
___ ___ 1

(4)
1 7
× 6
___ ___ 2

(3)
2 4
× 9
___ ___ 6

(4)
3 9
× 5
___ ___ 5

2 3
× 8
___ ___ 4

7 5
× 5
___ ___ 5

8 6
× 3
___ ___ 8

3 8
× 4

9 5
× 6

6 2
× 8

518

384

296

477

196

258

70

96

72

65

90

81

174

112

260

234

576

855

$\begin{array}{r} 74 \\ \times\ 7 \\ \hline \end{array}$	$\begin{array}{r} 96 \\ \times\ 4 \\ \hline \end{array}$	$\begin{array}{r} 37 \\ \times\ 8 \\ \hline \end{array}$
$\begin{array}{r} 53 \\ \times\ 9 \\ \hline \end{array}$	$\begin{array}{r} 98 \\ \times\ 2 \\ \hline \end{array}$	$\begin{array}{r} 86 \\ \times\ 3 \\ \hline \end{array}$

TEST

$\begin{array}{r} 35 \\ \times\ 2 \\ \hline \end{array}$	$\begin{array}{r} 24 \\ \times\ 4 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ \times\ 6 \\ \hline \end{array}$
$\begin{array}{r} 13 \\ \times\ 5 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ \times\ 6 \\ \hline \end{array}$	$\begin{array}{r} 27 \\ \times\ 3 \\ \hline \end{array}$
$\begin{array}{r} 87 \\ \times\ 2 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ \times\ 7 \\ \hline \end{array}$	$\begin{array}{r} 65 \\ \times\ 4 \\ \hline \end{array}$
$\begin{array}{r} 39 \\ \times\ 6 \\ \hline \end{array}$	$\begin{array}{r} 72 \\ \times\ 8 \\ \hline \end{array}$	$\begin{array}{r} 95 \\ \times\ 9 \\ \hline \end{array}$

14	$\begin{array}{r} 1\ 3\ 7 \\ \times \quad 2 \\ \hline ? \end{array}$ 2 × 7 = _____
6	(1) $\begin{array}{r} 1\ 3\ 7 \\ \times \quad 2 \\ \hline ?\ 4 \end{array}$ 2 × 3 = ____
7	6 + 1 = ____
$\underline{2}74$	$\begin{array}{r} 1\ 3\ 7 \\ \times \quad 2 \\ \hline \_\_\ 7\ 4 \end{array}$
45	$\begin{array}{r} 1\ 1\ 9 \\ \times \quad 5 \\ \hline ? \end{array}$ 5 × 9 = _____
5	(4) $\begin{array}{r} 1\ 1\ 9 \\ \times \quad 5 \\ \hline ?\ 5 \end{array}$ 5 × 1 = _____
9	5 + 4 = _____
$\underline{5}95$	$\begin{array}{r} 1\ 1\ 9 \\ \times \quad 5 \\ \hline \_\_\ 9\ 5 \end{array}$

$\underline{6}48$

$\underline{2}76$

$\underline{8}92$

$\underline{9}\underline{7}8$

$\underline{8}\underline{3}8$

$\underline{9}\underline{7}5$

$\underline{8}\underline{7}2$

$\underline{4}\underline{9}6$

$\underline{8}\underline{9}4$

957

492

498

872

890

378

$$\begin{array}{r} 216 \\ \times\ \ 3 \\ \hline \underline{}\,48 \end{array} \qquad \begin{array}{r} 138 \\ \times\ \ 2 \\ \hline \underline{}\,76 \end{array} \qquad \begin{array}{r} 223 \\ \times\ \ 4 \\ \hline \underline{}\,92 \end{array}$$

$$\begin{array}{r} 326 \\ \times\ \ 3 \\ \hline \underline{}\,\underline{}\,8 \end{array} \qquad \begin{array}{r} 419 \\ \times\ \ 2 \\ \hline \underline{}\,\underline{}\,8 \end{array} \qquad \begin{array}{r} 325 \\ \times\ \ 3 \\ \hline \underline{}\,\underline{}\,5 \end{array}$$

$$\begin{array}{r} 436 \\ \times\ \ 2 \\ \hline \underline{}\,\underline{}\,2 \end{array} \qquad \begin{array}{r} 124 \\ \times\ \ 4 \\ \hline \underline{}\,\underline{}\,6 \end{array} \qquad \begin{array}{r} 447 \\ \times\ \ 2 \\ \hline \underline{}\,\underline{}\,4 \end{array}$$

$$\begin{array}{r} 319 \\ \times\ \ 3 \\ \hline \end{array} \qquad \begin{array}{r} 123 \\ \times\ \ 4 \\ \hline \end{array} \qquad \begin{array}{r} 249 \\ \times\ \ 2 \\ \hline \end{array}$$

$$\begin{array}{r} 218 \\ \times\ \ 4 \\ \hline \end{array} \qquad \begin{array}{r} 445 \\ \times\ \ 2 \\ \hline \end{array} \qquad \begin{array}{r} 126 \\ \times\ \ 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4\ 0\ 9 \\ \times\ \ \ \ 2 \\ \hline ? \ \ \end{array}$$

18

2 × 9 = ____

$$\begin{array}{r} (1)\ \ \ \ \\ 4\ 0\ 9 \\ \times\ \ \ \ 2 \\ \hline ?\ \ 8 \end{array}$$

0

2 × 0 = ____

1

0 + 1 = ____

$\underline{8}18$

$$\begin{array}{r} 4\ 0\ 9 \\ \times\ \ \ \ 2 \\ \hline \_\ 1\ 8 \end{array}$$

$\underline{5}10$

$\underline{9}21$

$\underline{8}16$

$$\begin{array}{r} 1\ 0\ 2 \\ \times\ \ \ \ 5 \\ \hline \_\ 1\ 0 \end{array} \qquad \begin{array}{r} 3\ 0\ 7 \\ \times\ \ \ \ 3 \\ \hline \_\ 2\ 1 \end{array} \qquad \begin{array}{r} 4\ 0\ 8 \\ \times\ \ \ \ 2 \\ \hline \_\ 1\ 6 \end{array}$$

$\underline{6}\underline{1}5$

$\underline{9}\underline{2}7$

$\underline{8}\underline{1}6$

$$\begin{array}{r} 2\ 0\ 5 \\ \times\ \ \ \ 3 \\ \hline \_\ \_\ 5 \end{array} \qquad \begin{array}{r} 1\ 0\ 3 \\ \times\ \ \ \ 9 \\ \hline \_\ \_\ 7 \end{array} \qquad \begin{array}{r} 2\ 0\ 4 \\ \times\ \ \ \ 4 \\ \hline \_\ \_\ 6 \end{array}$$

924

812

742

$$\begin{array}{r} 3\ 0\ 8 \\ \times\ \ \ \ 3 \\ \hline \end{array} \qquad \begin{array}{r} 4\ 0\ 6 \\ \times\ \ \ \ 2 \\ \hline \end{array} \qquad \begin{array}{r} 1\ 0\ 6 \\ \times\ \ \ \ 7 \\ \hline \end{array}$$

6	$\begin{array}{r} 1\ 6\ 2 \\ \times\quad\ \ 3 \\ \hline ? \end{array}$ 3 × 2 = ___
18	$\begin{array}{r} 1\ 6\ 2 \\ \times\quad\ \ 3 \\ \hline ?\ \ 6 \end{array}$ 3 × 6 = ___
$\underline{4}86$	(1) $\begin{array}{r} 1\ 6\ 2 \\ \times\quad\ \ 3 \\ \hline \_\_\ 8\ 6 \end{array}$
9	$\begin{array}{r} 1\ 7\ 3 \\ \times\quad\ \ 3 \\ \hline ? \end{array}$ 3 × 3 = ___
21	$\begin{array}{r} 1\ 7\ 3 \\ \times\quad\ \ 3 \\ \hline ?\ \ 9 \end{array}$ 3 × 7 = ___
$\underline{5}19$	(2) $\begin{array}{r} 1\ 7\ 3 \\ \times\quad\ \ 3 \\ \hline \_\_\ 1\ 9 \end{array}$

728

900

729

928

855

768

987

960

788

960

762

879

966

968

920

(3)
$$\begin{array}{r} 1\ 8\ 2 \\ \times \quad\ 4 \\ \hline \underline{\quad}\ 2\ 8 \end{array}$$

(3)
$$\begin{array}{r} 1\ 5\ 0 \\ \times \quad\ 6 \\ \hline \underline{\quad}\ 0\ 0 \end{array}$$

(1)
$$\begin{array}{r} 2\ 4\ 3 \\ \times \quad\ 3 \\ \hline \underline{\quad}\ 2\ 9 \end{array}$$

(1)
$$\begin{array}{r} 4\ 6\ 4 \\ \times \quad\ 2 \\ \hline \underline{\quad}\ 2\ 8 \end{array}$$

(3)
$$\begin{array}{r} 1\ 7\ 1 \\ \times \quad\ 5 \\ \hline \underline{\quad}\ 5\ 5 \end{array}$$

(3)
$$\begin{array}{r} 1\ 9\ 2 \\ \times \quad\ 4 \\ \hline \underline{\quad}\ 6\ 8 \end{array}$$

(2)
$$\begin{array}{r} 1\ 4\ 1 \\ \times \quad\ 7 \\ \hline \underline{\quad}\ \underline{\quad}\ 7 \end{array}$$

(1)
$$\begin{array}{r} 1\ 2\ 0 \\ \times \quad\ 8 \\ \hline \underline{\quad}\ \underline{\quad}\ 0 \end{array}$$

(1)
$$\begin{array}{r} 3\ 9\ 4 \\ \times \quad\ 2 \\ \hline \underline{\quad}\ \underline{\quad}\ 8 \end{array}$$

$$\begin{array}{r} 1\ 6\ 0 \\ \times \quad\ 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3\ 8\ 1 \\ \times \quad\ 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2\ 9\ 3 \\ \times \quad\ 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1\ 6\ 1 \\ \times \quad\ 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4\ 8\ 4 \\ \times \quad\ 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2\ 3\ 0 \\ \times \quad\ 4 \\ \hline \end{array}$$

FINAL EXAM

Side 1

9 × ___ = 81

7 × ___ = 56

$$\begin{array}{r} 43 \\ \times\quad 2 \\ \hline \end{array} \qquad \begin{array}{r} 30 \\ \times\quad 3 \\ \hline \end{array} \qquad \begin{array}{r} 98 \\ \times\quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 423 \\ \times\quad 2 \\ \hline \end{array} \qquad \begin{array}{r} 679 \\ \times\quad 0 \\ \hline \end{array} \qquad \begin{array}{r} 2,103 \\ \times\quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 31,040 \\ \times\quad 2 \\ \hline \end{array} \qquad \begin{array}{r} 210,102 \\ \times\quad 4 \\ \hline \end{array} \qquad \begin{array}{r} 901 \\ \times\quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 813,412 \\ \times\quad 2 \\ \hline \end{array} \qquad \begin{array}{r} 701,100 \\ \times\quad 9 \\ \hline \end{array} \qquad \begin{array}{r} 83 \\ \times\quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 79 \\ \times\quad 4 \\ \hline \end{array} \qquad \begin{array}{r} 57 \\ \times\quad 8 \\ \hline \end{array} \qquad \begin{array}{r} 317 \\ \times\quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 207 \\ \times\quad 4 \\ \hline \end{array} \qquad \begin{array}{r} 283 \\ \times\quad 3 \\ \hline \end{array} \qquad \begin{array}{r} 180 \\ \times\quad 5 \\ \hline \end{array}$$

Turn the book over and continue with page 49.

	$\begin{array}{r} 3\ 9\ 6 \\ \times\quad 2 \\ \hline ? \end{array}$
12	$2 \times 6 = \_\_\_$
18	$\begin{array}{r} (1)\quad \\ 3\ 9\ 6 \\ \times\quad 2 \\ \hline ?\ \ 2 \end{array}$ $2 \times 9 = \_\_\_$
19	$18 + 1 = \_\_\_$
$\underline{7}92$	$\begin{array}{r} (1)\qquad \\ 3\ 9\ 6 \\ \times\quad 2 \\ \hline \_\_\ 9\ 2 \end{array}$
$\underline{8}34$	$\begin{array}{r} (2)(5)\quad \\ 1\ 3\ 9 \\ \times\quad 6 \\ \hline \_\_\ 3\ 4 \end{array}$
$\underline{6}25$	$\begin{array}{r} (1)(2)\quad \\ 1\ 2\ 5 \\ \times\quad 5 \\ \hline \_\_\ 2\ 5 \end{array}$
$\underline{9}84$	$\begin{array}{r} (1)(2)\quad \\ 2\ 4\ 6 \\ \times\quad 4 \\ \hline \_\_\ 8\ 4 \end{array}$
$\underline{7}\underline{5}6$	$\begin{array}{r} (1)\ (1)\quad \\ 3\ 7\ 8 \\ \times\quad 2 \\ \hline \_\_\ \_\_\ 6 \end{array}$
$\underline{9}\underline{6}6$	$\begin{array}{r} (2)\ (5)\quad \\ 1\ 3\ 8 \\ \times\quad 7 \\ \hline \_\_\ \_\_\ 6 \end{array}$
$\underline{7}\underline{6}2$	$\begin{array}{r} (1)\ (1)\quad \\ 2\ 5\ 4 \\ \times\quad 3 \\ \hline \_\_\ \_\_\ 2 \end{array}$

$\underline{9}\,\underline{7}\,4$

$\underline{8}\,\underline{5}\,8$

$\underline{7}\,\underline{9}\,0$

984

956

594

970

938

768

956

882

744

952

770

992

$$\begin{array}{r} (1)(1) \\ 4\;8\;7 \\ \times\quad 2 \\ \hline \_\;\_\;4 \end{array} \qquad \begin{array}{r} (2)(1) \\ 2\;8\;6 \\ \times\quad 3 \\ \hline \_\;\_\;8 \end{array} \qquad \begin{array}{r} (1)(1) \\ 3\;9\;5 \\ \times\quad 2 \\ \hline \_\;\_\;0 \end{array}$$

$$\begin{array}{r} (1)(2) \\ 1\;2\;3 \\ \times\quad 8 \\ \hline \end{array} \qquad \begin{array}{r} (1)(3) \\ 2\;3\;9 \\ \times\quad 4 \\ \hline \end{array} \qquad \begin{array}{r} (2)(2) \\ 1\;9\;8 \\ \times\quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} (4)(2) \\ 1\;9\;4 \\ \times\quad 5 \\ \hline \end{array} \qquad \begin{array}{r} (1)(1) \\ 4\;6\;9 \\ \times\quad 2 \\ \hline \end{array} \qquad \begin{array}{r} (1)(4) \\ 1\;2\;8 \\ \times\quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4\;7\;8 \\ \times\quad 2 \\ \hline \end{array} \qquad \begin{array}{r} 1\;2\;6 \\ \times\quad 7 \\ \hline \end{array} \qquad \begin{array}{r} 2\;4\;8 \\ \times\quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1\;1\;9 \\ \times\quad 8 \\ \hline \end{array} \qquad \begin{array}{r} 3\;8\;5 \\ \times\quad 2 \\ \hline \end{array} \qquad \begin{array}{r} 2\;4\;8 \\ \times\quad 4 \\ \hline \end{array}$$

12

14

1,424

$$\begin{array}{r} (2)(2) \\ 3\ 5\ 6 \\ \times\ \ \ \ 4 \\ \hline ?\ 2\ 4 \end{array}$$

4 × 3 = ___

12 + 2 = ___

$$\begin{array}{r} (2)(2) \\ 3\ 5\ 6 \\ \times\ \ \ \ 4 \\ \hline \underline{\quad},\underline{\quad}\ 2\ 4 \end{array}$$

2,135

1,602

$$\begin{array}{r} (1)(3) \\ 4\ 2\ 7 \\ \times\ \ \ \ 5 \\ \hline \underline{\quad},\underline{\quad}\ 3\ 5 \end{array} \qquad \begin{array}{r} (4)(4) \\ 2\ 6\ 7 \\ \times\ \ \ \ 6 \\ \hline \underline{\quad},\underline{\quad}\ 0\ 2 \end{array}$$

1,516

2,607

$$\begin{array}{r} (1)(1) \\ 7\ 5\ 8 \\ \times\ \ \ \ 2 \\ \hline \underline{\quad},\underline{\quad}\ 1\ 6 \end{array} \qquad \begin{array}{r} (2)(2) \\ 8\ 6\ 9 \\ \times\ \ \ \ 3 \\ \hline \underline{\quad},\underline{\quad}\ 0\ 7 \end{array}$$

2,632

1,472

$$\begin{array}{r} (5)(4) \\ 3\ 7\ 6 \\ \times\ \ \ \ 7 \\ \hline \underline{\quad},\underline{\quad}\ \underline{\quad}\ 2 \end{array} \qquad \begin{array}{r} (6)(3) \\ 1\ 8\ 4 \\ \times\ \ \ \ 8 \\ \hline \underline{\quad},\underline{\quad}\ \underline{\quad}\ 2 \end{array}$$

4,725

4,179

$$\begin{array}{r} (2)(2) \\ 9\ 4\ 5 \\ \times\ \ \ \ 5 \\ \hline \end{array} \qquad \begin{array}{r} (6)(4) \\ 5\ 9\ 7 \\ \times\ \ \ \ 7 \\ \hline \end{array}$$

2,572

2,784

3,680

3,794

2,124

5,971

3,968

2,502

5,292

5,016

3,141

3,661

2,892

4,725

$$\begin{array}{r} 643 \\ \times \quad 4 \\ \hline \end{array} \qquad \begin{array}{r} 928 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 736 \\ \times \quad 5 \\ \hline \end{array} \qquad \begin{array}{r} 542 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 354 \\ \times \quad 6 \\ \hline \end{array} \qquad \begin{array}{r} 853 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 496 \\ \times \quad 8 \\ \hline \end{array} \qquad \begin{array}{r} 278 \\ \times \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 756 \\ \times \quad 7 \\ \hline \end{array} \qquad \begin{array}{r} 627 \\ \times \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 349 \\ \times \quad 9 \\ \hline \end{array} \qquad \begin{array}{r} 523 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 482 \\ \times \quad 6 \\ \hline \end{array} \qquad \begin{array}{r} 945 \\ \times \quad 5 \\ \hline \end{array}$$

$\underline{6},957$

$\underline{8},272$

$\underline{8},\underline{4}76$

$\underline{9},\underline{3}81$

$\underline{2},\underline{8}\underline{5}8$

$\underline{9},\underline{9}\underline{5}4$

8,496

7,098

6,975

5,045

9,657

8,654

$$\begin{array}{r} (2) \\ 2,319 \\ \times \quad 3 \\ \hline \_,957 \end{array} \qquad \begin{array}{r} (1) \\ 4,136 \\ \times \quad 2 \\ \hline \_,272 \end{array}$$

$$\begin{array}{r} (1) \\ 4,238 \\ \times \quad 2 \\ \hline \_,\_76 \end{array} \qquad \begin{array}{r} (2) \\ 3,127 \\ \times \quad 3 \\ \hline \_,\_81 \end{array}$$

$$\begin{array}{r} (1) \\ 1,429 \\ \times \quad 2 \\ \hline \_,\_\_8 \end{array} \qquad \begin{array}{r} (5) \\ 1,106 \\ \times \quad 9 \\ \hline \_,\_\_4 \end{array}$$

$$\begin{array}{r} (1) \\ 2,124 \\ \times \quad 4 \\ \hline \end{array} \qquad \begin{array}{r} (2) \\ 1,014 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2,325 \\ \times \quad 3 \\ \hline \end{array} \qquad \begin{array}{r} 1,009 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3,219 \\ \times \quad 3 \\ \hline \end{array} \qquad \begin{array}{r} 4,327 \\ \times \quad 2 \\ \hline \end{array}$$

TEST

762 984	127 × 6	246 × 4
918 3,374	459 × 2	482 × 7
2,247 1,408	749 × 3	176 × 8
2,616 2,565	654 × 4	285 × 9
4,368 6,417	546 × 8	2,139 × 3
8,856 5,095	2,214 × 4	1,019 × 5

$\underline{8}$,348

$\underline{5}$,895

$\underline{9}$,$\underline{5}$07

$\underline{8}$,$\underline{7}$56

$\underline{9}$,$\underline{8}$73

$\underline{8}$,$\underline{7}$04

$\underline{8}$,$\underline{9}\underline{8}$4

$\underline{6}$,$\underline{8}\underline{2}$5

7,623

8,938

9,735

6,870

(3)(2)
2,087
× 4
___,348

(3)(4)
1,179
× 5
___,895

(2)(2)
3,169
× 3
___,___07

(1)(1)
4,378
× 2
___,___56

(8)(6)
1,097
× 9
___,___73

(3)(2)
2,176
× 4
___,___04

(1)(2)
1,123
× 8
___,___ ___4

(2)(1)
2,275
× 3
___,___ ___5

(6)(6)
1,089
× 7

(1)(1)
4,469
× 2

3,245
× 3

1,145
× 6

9,840

7,714

9,904

9,178

9,976

7,358

8,869

9,432

7,758

9,582

9,395

9,350

$$\begin{array}{r} (4)\ (3)(4) \\ 1,\ 9\ 6\ 8 \\ \times\qquad 5 \\ \hline \_\_,\ 8\ 4\ 0 \end{array}$$

$$\begin{array}{r} (1)\ (1)(1) \\ 3,\ 8\ 5\ 7 \\ \times\qquad 2 \\ \hline \_\_,\ 7\ 1\ 4 \end{array}$$

$$\begin{array}{r} (1)\ (3)(2) \\ 2,\ 4\ 7\ 6 \\ \times\qquad 4 \\ \hline \_\_,\ \_\_0\ 4 \end{array}$$

$$\begin{array}{r} (1)\ (1)(1) \\ 4,\ 5\ 8\ 9 \\ \times\qquad 2 \\ \hline \_\_,\ \_\_7\ 8 \end{array}$$

$$\begin{array}{r} (1)\ (3)(5) \\ 1,\ 2\ 4\ 7 \\ \times\qquad 8 \\ \hline \_\_,\ \_\_7\ 6 \end{array}$$

$$\begin{array}{r} (1)\ (1)(1) \\ 3,\ 6\ 7\ 9 \\ \times\qquad 2 \\ \hline \_\_,\ \_\_5\ 8 \end{array}$$

$$\begin{array}{r} (1)\ (4)(4) \\ 1,\ 2\ 6\ 7 \\ \times\qquad 7 \\ \hline \_\_,\ \_\_\ \_\_9 \end{array}$$

$$\begin{array}{r} (1)\ (2)(3) \\ 2,\ 3\ 5\ 8 \\ \times\qquad 4 \\ \hline \_\_,\ \_\_\ \_\_2 \end{array}$$

$$\begin{array}{r} (1)\ (2)(1) \\ 2,\ 5\ 8\ 6 \\ \times\qquad 3 \\ \hline \end{array}$$

$$\begin{array}{r} (3)\ (5)(4) \\ 1,\ 5\ 9\ 7 \\ \times\qquad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 1,\ 8\ 7\ 9 \\ \times\qquad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4,\ 6\ 7\ 5 \\ \times\qquad 2 \\ \hline \end{array}$$

45,395

17,712

```
(3) (5)(3)
  6, 4 8 5
×        7
----------
 __, 3 9 5
```

```
(8) (6)(7)
  1, 9 6 8
×        9
----------
 __, 7 1 2
```

34,584

34,636

```
(4) (3)(2)
  5, 7 6 4
×        6
----------
__,_ 8 4
```

```
(2) (2)(3)
  8, 6 5 9
×        4
----------
__,_ 3 6
```

31,176

37,315

```
(7) (7)(5)
  3, 8 9 7
×        8
----------
__,_ 7 6
```

```
(2) (3)(1)
  7, 4 6 3
×        5
----------
__,_ 1 5
```

14,868

60,732

```
(2) (1)(1)
  4, 9 5 6
×        3
----------
__,__ 8
```

```
(6) (4)(7)
  6, 7 4 8
×        9
----------
__,__ 2
```

47,896

56,898

```
(7) (6)(5)
  5, 9 8 7
×        8
----------
```

```
(2) (4)(1)
  9, 4 8 3
×        6
----------
```

18,795

70,048

```
  2, 6 8 5
×        7
----------
```

```
  8, 7 5 6
×        8
----------
```

60,957

82,614

39,849

84,960

54,050

96,549

86,412

64,260

83,248

63,987

93,870

75,607

(2)
20,319
× 3
__ __, 957

(1)
41,307
× 2
__ __, 614

(2)
13,283
× 3
__ __, __ 49

(1)
21,240
× 4
__ __, __ 60

(4)
10,810
× 5
__ __, __ 50

(2)
32,183
× 3
__ __, __ 49

(1)
43,206
× 2
__ __, __ __ 2

(4)
10,710
× 6
__ __, __ __ 0

(3)
20,812
× 4

(2)
21,329
× 3

31,290
× 3

10,801
× 7

$\underline{6}\underline{3},861$

$\underline{4}\underline{9},624$

$\underline{3}\underline{8},\underline{9}10$

$\underline{8}\underline{3},\underline{8}48$

$\underline{9}\underline{6},\underline{5}07$

$\underline{8}\underline{7},\underline{0}40$

$\underline{7}\underline{7},\underline{6}\underline{8}6$

$\underline{8}\underline{3},\underline{5}\underline{6}4$

90,567

87,924

69,495

66,534

$$\begin{array}{r} (2)(2)\\ 2\,1,\,2\,8\,7\\ \times\qquad\quad 3\\ \hline \_\_,\,8\,6\,1 \end{array}$$

$$\begin{array}{r} (1)\quad(2)\\ 1\,2,\,4\,0\,6\\ \times\qquad\quad 4\\ \hline \_\_,\,6\,2\,4 \end{array}$$

$$\begin{array}{r} (2)\ (2)\\ 1\,2,\,9\,7\,0\\ \times\qquad\quad 3\\ \hline \_\_,\,\_\,1\,0 \end{array}$$

$$\begin{array}{r} (3)\ (6)\\ 1\,0,\,4\,8\,1\\ \times\qquad\quad 8\\ \hline \_\_,\,\_\,4\,8 \end{array}$$

$$\begin{array}{r} (2)(2)\\ 3\,2,\,1\,6\,9\\ \times\qquad\quad 3\\ \hline \_\_,\,\_\,0\,7 \end{array}$$

$$\begin{array}{r} (3)\ (2)\\ 2\,1,\,7\,6\,0\\ \times\qquad\quad 4\\ \hline \_\_,\,\_\,4\,0 \end{array}$$

$$\begin{array}{r} (6)(5)\\ 1\,1,\,0\,9\,8\\ \times\qquad\quad 7\\ \hline \_\_,\,\_\_\,6 \end{array}$$

$$\begin{array}{r} (1)\ (1)\\ 4\,1,\,7\,8\,2\\ \times\qquad\quad 2\\ \hline \_\_,\,\_\_\,4 \end{array}$$

$$\begin{array}{r} (5)(2)\\ 1\,0,\,0\,6\,3\\ \times\qquad\quad 9\\ \hline \end{array}$$

$$\begin{array}{r} (3)\ (3)\\ 2\,1,\,9\,8\,1\\ \times\qquad\quad 4\\ \hline \end{array}$$

$$\begin{array}{r} 2\,3,\,1\,6\,5\\ \times\qquad\quad 3\\ \hline \end{array}$$

$$\begin{array}{r} 1\,1,\,0\,8\,9\\ \times\qquad\quad 6\\ \hline \end{array}$$

9,894

8,748

9,335

7,952

29,274

37,709

84,636

39,813

95,409

69,477

86,680

68,424

TEST

$\begin{array}{r} 3,298 \\ \times \quad 3 \\ \hline \end{array}$ $\begin{array}{r} 2,187 \\ \times \quad 4 \\ \hline \end{array}$

$\begin{array}{r} 1,867 \\ \times \quad 5 \\ \hline \end{array}$ $\begin{array}{r} 3,976 \\ \times \quad 2 \\ \hline \end{array}$

$\begin{array}{r} 4,879 \\ \times \quad 6 \\ \hline \end{array}$ $\begin{array}{r} 5,387 \\ \times \quad 7 \\ \hline \end{array}$

$\begin{array}{r} 42,318 \\ \times \quad 2 \\ \hline \end{array}$ $\begin{array}{r} 13,271 \\ \times \quad 3 \\ \hline \end{array}$

$\begin{array}{r} 10,601 \\ \times \quad 9 \\ \hline \end{array}$ $\begin{array}{r} 23,159 \\ \times \quad 3 \\ \hline \end{array}$

$\begin{array}{r} 21,670 \\ \times \quad 4 \\ \hline \end{array}$ $\begin{array}{r} 11,404 \\ \times \quad 6 \\ \hline \end{array}$

$\underline{4}\underline{9},548$

$\underline{6}\underline{4},407$

$\underline{7}\underline{5},\underline{1}84$

$\underline{9}\underline{7},\underline{3}48$

$\underline{8}\underline{3},\underline{7}05$

$\underline{5}\underline{3},\underline{4}15$

$\underline{8}\underline{3},\underline{5}\underline{3}8$

$\underline{9}\underline{4},\underline{3}\underline{6}5$

75,174

98,720

91,378

71,942

$$\begin{array}{r} (1)\ \ (3)(2) \\ 1\ 2,\ 3\ 8\ 7 \\ \times \qquad\quad 4 \\ \hline \underline{\quad}\,\underline{\quad},\ 5\ 4\ 8 \end{array} \qquad\qquad \begin{array}{r} (1)\ \ (2)(2) \\ 2\ 1,\ 4\ 6\ 9 \\ \times \qquad\quad 3 \\ \hline \underline{\quad}\,\underline{\quad},\ 4\ 0\ 7 \end{array}$$

$$\begin{array}{r} (1)(1)\ \ (1)\quad \\ 3\ 7,\ 5\ 9\ 2 \\ \times \qquad\quad 2 \\ \hline \underline{\quad}\,\underline{\quad},\ \underline{\quad}\ 8\ 4 \end{array} \qquad\qquad \begin{array}{r} (1)(1)\ \ (1)\quad \\ 4\ 8,\ 6\ 7\ 4 \\ \times \qquad\quad 2 \\ \hline \underline{\quad}\,\underline{\quad},\ \underline{\quad}\ 4\ 8 \end{array}$$

$$\begin{array}{r} (3)(3)\ \ (2)\quad \\ 1\ 6,\ 7\ 4\ 1 \\ \times \qquad\quad 5 \\ \hline \underline{\quad}\,\underline{\quad},\ \underline{\quad}\ 0\ 5 \end{array} \qquad\qquad \begin{array}{r} (2)(2)\qquad (1)\ \ \\ 1\ 7,\ 8\ 0\ 5 \\ \times \qquad\quad 3 \\ \hline \underline{\quad}\,\underline{\quad},\ \underline{\quad}\ 1\ 5 \end{array}$$

$$\begin{array}{r} (1)\ \ (1)(1)\ \ \\ 4\ 1,\ 7\ 6\ 9 \\ \times \qquad\quad 2 \\ \hline \underline{\quad}\,\underline{\quad},\ \underline{\quad}\,\underline{\quad}\ 8 \end{array} \qquad\qquad \begin{array}{r} (4)\ \ (7)(4)\ \ \\ 1\ 0,\ 4\ 8\ 5 \\ \times \qquad\quad 9 \\ \hline \underline{\quad}\,\underline{\quad},\ \underline{\quad}\,\underline{\quad}\ 5 \end{array}$$

$$\begin{array}{r} (1)\qquad (1)(2)\ \ \\ 2\ 5,\ 0\ 5\ 8 \\ \times \qquad\quad 3 \\ \hline \end{array} \qquad\qquad \begin{array}{r} (1)(2)\ \ (3)\ \ \\ 1\ 2,\ 3\ 4\ 0 \\ \times \qquad\quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 1\ 3,\ 0\ 5\ 4 \\ \times \qquad\quad 7 \\ \hline \end{array} \qquad\qquad \begin{array}{r} 3\ 5,\ 9\ 7\ 1 \\ \times \qquad\quad 2 \\ \hline \end{array}$$

145,929

214,158

281,368

172,260

256,239

341,530

187,368

304,524

154,728

409,035

374,580

152,536

$$\begin{array}{r} (5)\ (3)(4) \\ 20,847 \\ \times \qquad 7 \\ \hline \_\_\_,929 \end{array} \qquad \begin{array}{r} (1)\ (2)(1) \\ 71,386 \\ \times \qquad 3 \\ \hline \_\_\_,158 \end{array}$$

$$\begin{array}{r} (4)(1)\ (5) \\ 35,171 \\ \times \qquad 8 \\ \hline \_\_\_,\_68 \end{array} \qquad \begin{array}{r} (1)\quad (2)(2) \\ 43,065 \\ \times \qquad 4 \\ \hline \_\_\_,\_60 \end{array}$$

$$\begin{array}{r} (7)(4)\ (6) \\ 28,471 \\ \times \qquad 9 \\ \hline \_\_\_,\_39 \end{array} \qquad \begin{array}{r} (4)(1)\quad (3) \\ 68,306 \\ \times \qquad 5 \\ \hline \_\_\_,\_30 \end{array}$$

$$\begin{array}{r} (1)\ (1) \\ 93,684 \\ \times \qquad 2 \\ \hline \_\_\_,\_\_8 \end{array} \qquad \begin{array}{r} (4)\ (3)(2) \\ 50,754 \\ \times \qquad 6 \\ \hline \_\_\_,\_\_4 \end{array}$$

$$\begin{array}{r} (1)\ (2)(1) \\ 51,576 \\ \times \qquad 3 \\ \hline \end{array} \qquad \begin{array}{r} (4)\quad (3) \\ 81,807 \\ \times \qquad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 41,620 \\ \times \qquad 9 \\ \hline \end{array} \qquad \begin{array}{r} 19,067 \\ \times \qquad 8 \\ \hline \end{array}$$

246,096

690,579

963,810

908,109

872,248

964,804

808,648

847,026

954,693

980,700

804,876

684,348

$$\begin{array}{r} (1) \\ 1\,2\,3,\,0\,4\,8 \\ \times \qquad\quad 2 \\ \hline \_\_\_,\,0\,9\,6 \end{array} \qquad\qquad \begin{array}{r} (2) \\ 2\,3\,0,\,1\,9\,3 \\ \times \qquad\quad 3 \\ \hline \_\_\_,\,5\,7\,9 \end{array}$$

$$\begin{array}{r} (2) \\ 3\,2\,1,\,2\,7\,0 \\ \times \qquad\quad 3 \\ \hline \_\_\_,\,\_\,1\,0 \end{array} \qquad\qquad \begin{array}{r} (8) \\ 1\,0\,0,\,9\,0\,1 \\ \times \qquad\quad 9 \\ \hline \_\_\_,\,\_\,0\,9 \end{array}$$

$$\begin{array}{r} (1) \qquad\quad \\ 4\,3\,6,\,1\,2\,4 \\ \times \qquad\quad 2 \\ \hline \_\_\_,\,\_\,4\,8 \end{array} \qquad\qquad \begin{array}{r} (1) \qquad\quad \\ 2\,4\,1,\,2\,0\,1 \\ \times \qquad\quad 4 \\ \hline \_\_\_,\,\_\,0\,4 \end{array}$$

$$\begin{array}{r} (6) \quad \\ 1\,0\,1,\,0\,8\,1 \\ \times \qquad\quad 8 \\ \hline \_\_\_,\,\_\,\_\,8 \end{array} \qquad\qquad \begin{array}{r} (1) \qquad\quad \\ 4\,2\,3,\,5\,1\,3 \\ \times \qquad\quad 2 \\ \hline \_\_\_,\,\_\,\_\,6 \end{array}$$

$$\begin{array}{r} (2) \qquad\qquad \\ 3\,1\,8,\,2\,3\,1 \\ \times \qquad\quad 3 \\ \hline \end{array} \qquad\qquad \begin{array}{r} (2) \qquad\qquad \\ 1\,4\,0,\,1\,0\,0 \\ \times \qquad\quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2\,0\,1,\,2\,1\,9 \\ \times \qquad\quad 4 \\ \hline \end{array} \qquad\qquad \begin{array}{r} 3\,4\,2,\,1\,7\,4 \\ \times \qquad\quad 2 \\ \hline \end{array}$$

248,796

695,289

946,263

948,600

843,672

749,847

958,050

864,318

965,376

877,680

956,428

843,672

$$\begin{array}{r} (1)\,(1) \\ 124,398 \\ \times\quad 2 \\ \hline \_\_\_,796 \end{array} \qquad \begin{array}{r} (2)\ (1) \\ 231,763 \\ \times\quad 3 \\ \hline \_\_\_,289 \end{array}$$

$$\begin{array}{r} (1)(1) \\ 315,421 \\ \times\quad 3 \\ \hline \_\_\_,\_63 \end{array} \qquad \begin{array}{r} (3)(4) \\ 158,100 \\ \times\quad 6 \\ \hline \_\_\_,\_00 \end{array}$$

$$\begin{array}{r} (3)\quad(3) \\ 210,918 \\ \times\quad 4 \\ \hline \_\_\_,\_72 \end{array} \qquad \begin{array}{r} (4)\quad(1) \\ 107,121 \\ \times\quad 7 \\ \hline \_\_\_,\_47 \end{array}$$

$$\begin{array}{r} (4)\quad(3) \\ 191,610 \\ \times\quad 5 \\ \hline \_\_\_,\_\_0 \end{array} \qquad \begin{array}{r} (1)(1) \\ 432,159 \\ \times\quad 2 \\ \hline \_\_\_,\_\_8 \end{array}$$

$$\begin{array}{r} (2)\ (2) \\ 321,792 \\ \times\quad 3 \\ \hline \end{array} \qquad \begin{array}{r} (7)(5) \\ 109,710 \\ \times\quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 478,214 \\ \times\quad 2 \\ \hline \end{array} \qquad \begin{array}{r} 210,918 \\ \times\quad 4 \\ \hline \end{array}$$

$\underline{1},\underline{4}\underline{7}\underline{9},506$

$\underline{4},\underline{0}\underline{2}\underline{9},368$

$\underline{8},\underline{6}\underline{9}\underline{1},\underline{3}90$

$\underline{1},\underline{4}\underline{8}\underline{3},\underline{2}76$

$\underline{1},\underline{6}\underline{7}\underline{2},\underline{5}28$

$\underline{4},\underline{0}\underline{5}\underline{4},\underline{7}85$

$\underline{1},\underline{6}\underline{7}\underline{6},\underline{2}\underline{4}8$

$\underline{2},\underline{1}\underline{9}\underline{5},\underline{6}\underline{4}8$

4,084,290

2,481,273

1,432,964

1,073,439

$$\begin{array}{r} (2)\ (4)(5) \\ 2\ 1\ 1,\ 3\ 5\ 8 \\ \times\qquad\quad 7 \\ \hline \_,\_\ \_\ \_,\ 5\ 0\ 6 \end{array}$$

$$\begin{array}{r} (2)(5)\ (5) \\ 5\ 0\ 3,\ 6\ 7\ 1 \\ \times\qquad\quad 8 \\ \hline \_,\_\ \_\ \_,\ 3\ 6\ 8 \end{array}$$

$$\begin{array}{r} (5)(5)(6)\qquad \\ 9\ 6\ 5,\ 7\ 1\ 0 \\ \times\qquad\quad 9 \\ \hline \_,\_\ \_\ \_,\ \_\ 9\ 0 \end{array}$$

$$\begin{array}{r} (2)\ \ (3)\ \ (3)\quad \\ 3\ 7\ 0,\ 8\ 1\ 9 \\ \times\qquad\quad 4 \\ \hline \_,\_\ \_\ \_,\ \_\ 7\ 6 \end{array}$$

$$\begin{array}{r} (3)\quad (1)\qquad \\ 4\ 1\ 8,\ 1\ 3\ 2 \\ \times\qquad\quad 4 \\ \hline \_,\_\ \_\ \_,\ \_\ 2\ 8 \end{array}$$

$$\begin{array}{r} (4)\ (2)(3)\quad \\ 8\ 1\ 0,\ 9\ 5\ 7 \\ \times\qquad\quad 5 \\ \hline \_,\_\ \_\ \_,\ \_\ 8\ 5 \end{array}$$

$$\begin{array}{r} (7)(4)\ (2)\qquad \\ 2\ 0\ 9,\ 5\ 3\ 1 \\ \times\qquad\quad 8 \\ \hline \_,\_\ \_\ \_,\ \_\ \_\ 8 \end{array}$$

$$\begin{array}{r} (1)(3)(3)\qquad \\ 5\ 4\ 8,\ 9\ 1\ 2 \\ \times\qquad\quad 4 \\ \hline \_,\_\ \_\ \_,\ \_\ \_\ 8 \end{array}$$

$$\begin{array}{r} (4)\quad (4)\quad (3)\quad \\ 6\ 8\ 0,\ 7\ 1\ 5 \\ \times\qquad\quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} (2)\quad (2)\qquad \\ 8\ 2\ 7,\ 0\ 9\ 1 \\ \times\qquad\quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7\ 1\ 6,\ 4\ 8\ 2 \\ \times\qquad\quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3\ 5\ 7,\ 8\ 1\ 3 \\ \times\qquad\quad 3 \\ \hline \end{array}$$

65,815

95,726

207,858

375,480

951,369

910,700

942,060

843,276

871,208

2,903,575

1,835,684

1,358,090

TEST

$$\begin{array}{r} 13,163 \\ \times \quad 5 \\ \hline \end{array} \qquad \begin{array}{r} 47,863 \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 69,286 \\ \times \quad 3 \\ \hline \end{array} \qquad \begin{array}{r} 41,720 \\ \times \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 317,123 \\ \times \quad 3 \\ \hline \end{array} \qquad \begin{array}{r} 130,100 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 157,010 \\ \times \quad 6 \\ \hline \end{array} \qquad \begin{array}{r} 210,819 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 108,901 \\ \times \quad 8 \\ \hline \end{array} \qquad \begin{array}{r} 580,715 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 458,921 \\ \times \quad 4 \\ \hline \end{array} \qquad \begin{array}{r} 271,618 \\ \times \quad 5 \\ \hline \end{array}$$

2,460,836

6,393,087

8,048,768

9,361,863

5,085,500

8,386,482

8,439,603

6,486,006

4,863,468

9,639,084

3,609,873

5,286,248

(1)
1, 2 3 0, 4 1 8
× 2
—, — — —, 8 3 6

(2)
2, 1 3 1, 0 2 9
× 3
—, — — —, 0 8 7

(3)
2, 0 1 2, 1 9 2
× 4
—, — — —, — 6 8

(1)
3, 1 2 0, 6 2 1
× 3
—, — — —, — 6 3

(3)
1, 0 1 7, 1 0 0
× 5
—, — — —, — 0 0

(1)
4, 1 9 3, 2 4 1
× 2
—, — — —, — 8 2

(2)
2, 8 1 3, 2 0 1
× 3
—, — — —, — — 3

(4)
1, 0 8 1, 0 0 1
× 6
—, — — —, — — 6

(1)
2, 4 3 1, 7 3 4
× 2

(2)
3, 2 1 3, 0 2 8
× 3

1, 2 0 3, 2 9 1
× 3

2, 6 4 3, 1 2 4
× 2

3,960,501

4,287,704

9,658,263

4,956,840

9,526,408

6,391,857

2,876,546

6,385,684

9,672,048

3,069,528

5,095,800

7,896,428

```
         (2)(2)
 1, 3 2 0, 1 6 7
×              3
_______________
 _, _ _ _, 5 0 1
```

```
     (1)  (1)
 2, 1 4 3, 8 5 2
×              2
_______________
 _, _ _ _, 7 0 4
```

```
     (2)(1)
 3, 2 1 9, 4 2 1
×              3
_______________
 _, _ _ _, _ 6 3
```

```
     (1)(3)
 1, 2 3 9, 2 1 0
×              4
_______________
 _, _ _ _, _ 4 0
```

```
(1)  (1)
 4, 7 6 3, 2 0 4
×              2
_______________
 _, _ _ _, _ 0 8
```

```
        (1)    (2)
 2, 1 3 0, 6 1 9
×              3
_______________
 _, _ _ _, _ 5 7
```

```
     (1)    (1)
 1, 4 3 8, 2 7 3
×              2
_______________
 _, _ _ _, _ _ 6
```

```
     (1)  (1)
 3, 1 9 2, 8 4 2
×              2
_______________
 _, _ _ _, _ _ 4
```

```
(1)   (3)
 2, 4 1 8, 0 1 2
×              4
_______________
```

```
           (2)(1)
 1, 0 2 3, 1 7 6
×              3
_______________
```

```
 1, 0 1 9, 1 6 0
×              5
_______________
```

```
 3, 9 4 8, 2 1 4
×              2
_______________
```

4, 843, 516

6, 920, 619

6, 591, 648

9, 548, 048

5, 459, 085

3, 896, 724

8, 430, 472,

7, 459, 642

2, 571, 864

9, 570, 825

4, 578, 549

4, 387, 296

(3) (3)(3)
1, 2 1 0, 8 7 9
× 4
_, _ _ _, 5 1 6

(2)(2) (2)
2, 3 0 6, 8 7 3
× 3
_, _ _ _, 6 1 9

(1) (1) (1)
3, 2 9 5, 8 2 4
× 2
_, _ _ _, _ 4 8

(1) (3)(2)
2, 3 8 7, 0 1 2
× 4
_, _ _ _, _ 4 8

(4) (4) (3)
1, 0 9 1, 8 1 7
× 5
_, _ _ _, _ 8 5

(1) (1) (1)
1, 9 4 8, 3 6 2
× 2
_, _ _ _, _ 2 4

(3)(2) (3)
2, 1 0 7, 6 1 8
× 4
_, _ _ _, _ _ 2

(1) (1) (1)
3, 7 2 9, 8 2 1
× 2
_, _ _ _, _ _ 2

(1) (1) (1)
1, 2 8 5, 9 3 2
× 2

(2) (2) (1)
3, 1 9 0, 2 7 5
× 3

1, 5 2 6, 1 8 3
× 3

2, 1 9 3, 6 4 8
× 2

$$\begin{array}{r:r} 7 & 3 \\ \times 1 & 2 \\ \hline \multicolumn{2}{c}{?} \end{array}$$

Multiply 73 by 2:

6

$2 \times 3 =$ ___

14

$2 \times 7 =$ ___

$$\begin{array}{rrr} & 7 & 3 \\ \times & 1 & 2 \\ \hline 1 & 4 & 6 \\ ? & & \end{array}$$

Multiply 73 by 1:

3

$1 \times 3 =$ ___

7

$1 \times 7 =$ ___

$\underline{8}76$

Add:
$$\begin{array}{rrr} & 7 & 3 \\ \times & 1 & 2 \\ \hline 1 & 4 & 6 \\ +7 & 3 & \downarrow \\ \hline \_ & 7 & 6 \end{array}$$

$\underline{12}8$

$$\begin{array}{rrr} & 3 & 2 \\ \times & 1 & 4 \\ \hline \_ & \_ & 8 \\ ? & & \end{array}$$

(Stop and check with the answer column.)

$\underline{3}2$

448

$$\begin{array}{rrrr} & & 3 & 2 \\ & \times & 1 & 4 \\ \hline & 1 & 2 & 8 \\ \_ & 2 & & \downarrow \\ \hline \_ & \_ & \_ & \_ \end{array}$$

(Check with the answer column; then add.)

156

676

 5 2
×1 3
_ _ 6 (Stop and check this answer.)
5 2
_ _ 6 (Add and check.)

54

648

 5 4
×1 2
1 0 8
_ _ (Stop and check; then add.)
_ _ _ (Check.)

155

465

 3 1
×1 5
_ _ _ (Check this answer.)
3 1
_ _ _ (Add and check.)

84

882

 4 2
×2 1
 4 2
_ _ (Check here; then add.)
_ _ _ (Check.)

7,593,639

4,368,480

8,762,968

7,896,060

8,378,654

6,365,478

483

24

216

936

42

588

TEST

$$\begin{array}{r} 2,531,213 \\ \times \quad 3 \\ \hline \end{array} \qquad \begin{array}{r} 1,092,120 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2,190,742 \\ \times \quad 4 \\ \hline \end{array} \qquad \begin{array}{r} 1,316,010 \\ \times \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4,189,327 \\ \times \quad 2 \\ \hline \end{array} \qquad \begin{array}{r} 1,060,913 \\ \times \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ \times 21 \\ \hline 23 \\ 46 \\ \hline \_\,\_\,\_ \end{array} \qquad \begin{array}{r} 24 \\ \times 12 \\ \hline 48 \\ \_\,\_ \\ \hline 288 \end{array}$$

$$\begin{array}{r} 72 \\ \times 13 \\ \hline \_\,\_\,\_ \\ 72 \\ \hline \_\,\_\,\_ \end{array} \qquad \begin{array}{r} 42 \\ \times 14 \\ \hline 168 \\ \_\,\_ \\ \hline \_\,\_\,\_ \end{array}$$

224

544

32
×17
__4 (Check.)
32
___ (Add and check.)

33

495

33
×15
165
(Check here; then add.)
__
____ (Check.)

846

540

47
×18
(1)
376
47
_①4_

36
×15
(1)
180
36
5__

1,817

2,205

79
×23
(1)
237
158
_,_1_

45
×49
(1)
405
180
_,2__

66

425

$$\begin{array}{r} 3\ 3 \\ \times 2\ 9 \\ \hline 2\ 9\ 7 \\ \_\ \_ \\ \hline 9\ 5\ 7 \end{array} \qquad \begin{array}{r} 8\ 5 \\ \times 5\ 6 \\ \hline 5\ 1\ 0 \\ \_\ \_\ \_ \\ \hline 4,\ 7\ 6\ 0 \end{array}$$

27

$\underline{5}13$

$$\begin{array}{rl} 2\ 7 & \\ \times 1\ 9 & \\ \hline 2\ 4\ 3 & \\ \_\ \_ & \text{(Check here; then add.)} \\ \hline \_\ 1\ 3 & \text{(Check.)} \end{array}$$

126

$\underline{1},\underline{5}\underline{9}6$

$$\begin{array}{rl} 4\ 2 & \\ \times 3\ 8 & \\ \hline 3\ 3\ 6 & \\ \_\ \_\ \_ & \text{(Check here.)} \\ \hline \_,\_\ \_\ 6 & \text{(Check.)} \end{array}$$

190

2,014

114

1,596

$$\begin{array}{rl} 3\ 8 & \\ \times 5\ 3 & \\ \hline 1\ 1\ 4 & \\ & \text{(Check.)} \\ \_\ \_\ \_ & \\ \hline \_,\_\ \_\ \_ & \text{(Check.)} \end{array} \qquad \begin{array}{rl} 5\ 7 & \\ \times 2\ 8 & \\ \hline 4\ 5\ 6 & \\ & \text{(Check.)} \\ \_\ \_\ \_ & \\ \hline \_,\_\ \_\ \_ & \text{(Check.)} \end{array}$$

135

117

1,677

504

84

25

225

488

122

1,708

160

224

2,400

184

92

1,104

378

54

918

27
×35
___ (Check.)
81
945

39
×43
___ (Check.)
156
1,6__

84
×16
___ (Check.)
__ (Check.)
1,344

25
×91
__ (Check.)
___ (Check.)
2,275

61
×28
___ (Check.)
___ (Check.)
1,7__ (Check.)

32
×75
___ (Check.)
___ (Check.)
2,___ (Check.)

Don't forget to check each part of a problem.

46
×24
___
__
_,___

54
×17
___
__
___

258
172
1,978
158
237
2,528
228
228
2,508
520
65
1,170
490
196
2,450
136
204
2,176

$$\begin{array}{r} 8\,6 \\ \times 2\,3 \\ \hline \_\,\_\,\_ \\ \_\,\_\,\_\, \\ \hline \_,\_\,\_\,\_ \end{array}$$

$$\begin{array}{r} 7\,9 \\ \times 3\,2 \\ \hline \end{array}$$

$$\begin{array}{r} 5\,7 \\ \times 4\,4 \\ \hline \end{array}$$

$$\begin{array}{r} 6\,5 \\ \times 1\,8 \\ \hline \end{array}$$

$$\begin{array}{r} 9\,8 \\ \times 2\,5 \\ \hline \end{array}$$

$$\begin{array}{r} 6\,8 \\ \times 3\,2 \\ \hline \end{array}$$

$$\begin{array}{r} \overline{(1)\ (1)} \\ 664 \\ 996 \\ \hline 10{,}624 \end{array}$$

$$\begin{array}{r} \overline{(1)\ (1)} \\ 4752 \\ 528 \\ \hline 10{,}032 \end{array}$$

14,094

13,734

10,976

12,369

10,138

14,000

16,031

11,952

$$\begin{array}{r} 166 \\ \times\ \ 64 \\ \hline (\ )(\ ) \\ 664 \\ 996 \\ \hline \_\_,\_\_\_\_ \end{array}$$

$$\begin{array}{r} 528 \\ \times\ \ 19 \\ \hline (\ )(\ ) \\ 4752 \\ 528 \\ \hline \_\_,\_\_\_\_ \end{array}$$

$$\begin{array}{r} 486 \\ \times\ \ 29 \\ \hline 4374 \\ 972 \\ \hline \end{array}$$

$$\begin{array}{r} 763 \\ \times\ \ 18 \\ \hline 6104 \\ 763 \\ \hline \end{array}$$

$$\begin{array}{r} 392 \\ \times\ \ 28 \\ \hline 3136 \\ 784 \\ \hline \end{array}$$

$$\begin{array}{r} 651 \\ \times\ \ 19 \\ \hline 5859 \\ 651 \\ \hline \end{array}$$

$$\begin{array}{r} 274 \\ \times\ \ 37 \\ \hline 1918 \\ 822 \\ \hline \end{array}$$

$$\begin{array}{r} 875 \\ \times\ \ 16 \\ \hline 5250 \\ 875 \\ \hline \end{array}$$

$$\begin{array}{r} 943 \\ \times\ \ 17 \\ \hline 6601 \\ 943 \\ \hline \end{array}$$

$$\begin{array}{r} 249 \\ \times\ \ 48 \\ \hline 1992 \\ 996 \\ \hline \end{array}$$

888

228

178

3,264

136

158

35

70

735

166

332

3,486

TEST

```
   7 4          5 7
 × 1 2        × 4 3
 1 4 8
 7 4          1 7 1

 _ _ _        _ _ _
            2,4 5 1
```

```
    8 9          9 6
  × 5 2        × 3 4
               3 8 4
   _ _ _     2 8 8
 4 4 5
 4,6 2 8     _,_ _ _
```

```
   6 8          7 9
 × 2 5        × 4 2
 3 4 0
              _ _ _
 _ _ _      3 1 6
1,7 0 0     3,3 1 8
```

```
    3 5          8 3
  × 2 1        × 4 2

    _ _         _ _ _
  _ _         _ _ _
  _ _ _     _,_ _ _
```

684

861

936

10,452

944

10,856

927

11,742

825

12,375

942

13,188

573

10,314

748

11,968

696

9,396

$$\begin{array}{r} 684 \\ \times\ \ 19 \\ \hline 6156 \\ \underline{\_\,\_\,\_\ } \\ 12{,}996 \end{array} \qquad \begin{array}{r} 287 \\ \times\ \ 35 \\ \hline 1435 \\ \underline{\_\,\_\,\_\ } \\ 10{,}045 \end{array}$$

$$\begin{array}{rl} 156 & \\ \times\ \ 67 & \\ \hline 1092 & \\ \underline{\_\,\_\,\_\ } & \text{(Check.)} \\ 10{,}\_\,\_\,\_ & \text{(Check.)} \end{array} \qquad \begin{array}{rl} 472 & \\ \times\ \ 23 & \\ \hline 1416 & \\ \underline{\_\,\_\,\_\ } & \text{(Check.)} \\ \_\,\_{,}\_\,\_\,\_ & \text{(Check.)} \end{array}$$

$$\begin{array}{rl} 309 & \\ \times\ \ 38 & \\ \hline 2472 & \\ \underline{\_\,\_\,\_\ } & \text{(Check.)} \\ & \text{(Check.)} \end{array} \qquad \begin{array}{r} 825 \\ \times\ \ 15 \\ \hline 4125 \\ \underline{\_\,\_\,\_\ } \end{array}$$

$$\begin{array}{r} 942 \\ \times\ \ 14 \\ \hline 3768 \\ \underline{\_\,\_\,\_\ } \end{array} \qquad \begin{array}{r} 573 \\ \times\ \ 18 \\ \hline 4584 \\ \underline{\_\,\_\,\_\ } \end{array}$$

$$\begin{array}{r} 748 \\ \times\ \ 16 \\ \hline 4488 \\ \underline{\_\,\_\,\_\ } \end{array} \qquad \begin{array}{r} 348 \\ \times\ \ 27 \\ \hline 2436 \\ \underline{\_\,\_\,\_\ } \end{array}$$

2961

846

11,421

6265

895

15,215

2528

948

12,008

1374

916

10,534

1782

990

11,682

5265

585

11,115

$$\begin{array}{r} 423 \\ \times \quad 27 \\ \hline \end{array}$$

_____ (Check.)

___ (Check.)

__,___ (Check.)

$$\begin{array}{r} 895 \\ \times \quad 17 \\ \hline \end{array}$$

_____

___

__,___

Don't forget to check:

$$\begin{array}{r} 316 \\ \times \quad 38 \\ \hline \end{array}$$

_____

___

__,___

$$\begin{array}{r} 229 \\ \times \quad 46 \\ \hline \end{array}$$

$$\begin{array}{r} 198 \\ \times \quad 59 \\ \hline \end{array}$$

$$\begin{array}{r} 585 \\ \times \quad 19 \\ \hline \end{array}$$

114,738

105,000

109,872

70,499

6487

110,279

8625

100,625

9414

108,261

5673

90,768

34592

8648

121,072

$$\begin{array}{r} 2{,}9\;4\;2 \\ \times \quad 3\;9 \\ \hline 2\;6\;4\;7\;8 \\ 8\;8\;2\;6 \\ \hline \end{array}$$

____,____

$$\begin{array}{r} 1{,}8\;7\;5 \\ \times \quad 5\;6 \\ \hline 1\;1\;2\;5\;0 \\ 9\;3\;7\;5 \\ \hline \end{array}$$

____,____

$$\begin{array}{r} 3{,}9\;2\;4 \\ \times \quad 2\;8 \\ \hline 3\;1\;3\;9\;2 \\ 7\;8\;4\;8 \\ \hline \end{array}$$

$$\begin{array}{r} 2{,}4\;3\;1 \\ \times \quad 2\;9 \\ \hline 2\;1\;8\;7\;9 \\ 4\;8\;6\;2 \\ \hline \end{array}$$

$$\begin{array}{r} 6{,}4\;8\;7 \\ \times \quad 1\;7 \\ \hline 4\;5\;4\;0\;9 \end{array}$$

_____ (Check.)

____,____ (Check.)

$$\begin{array}{r} 2{,}8\;7\;5 \\ \times \quad 3\;5 \\ \hline 1\;4\;3\;7\;5 \end{array}$$

_____ (Check.)

____,____ (Check.)

$$\begin{array}{r} 1{,}5\;6\;9 \\ \times \quad 6\;9 \\ \hline 1\;4\;1\;2\;1 \end{array}$$

_____

____,____

$$\begin{array}{r} 5{,}6\;7\;3 \\ \times \quad 1\;6 \\ \hline 3\;4\;0\;3\;8 \end{array}$$

_____

____,____

$$\begin{array}{r} 4{,}3\;2\;4 \\ \times \quad 2\;8 \\ \hline \end{array}$$

______ (Check.)

_____ (Check.)

____,____ (Check.)

60144

8592

146,064

17874

9930

117,174

21745

8698

108,725

3981

9289

96,871

40957

5851

99,467

13758

9172

105,478

Remember to check.

$$\begin{array}{r} 8592 \\ \times \quad 17 \\ \hline \end{array}$$

$$\begin{array}{r} 1986 \\ \times \quad 59 \\ \hline \end{array}$$

$$\begin{array}{r} 4349 \\ \times \quad 25 \\ \hline \end{array}$$

$$\begin{array}{r} 1327 \\ \times \quad 73 \\ \hline \end{array}$$

$$\begin{array}{r} 5851 \\ \times \quad 17 \\ \hline \end{array}$$

$$\begin{array}{r} 2293 \\ \times \quad 46 \\ \hline \end{array}$$

45,287

134,673

96,800

128,520

99,242

139,138

118,428

117,294

108,066

67,340

Finish the problems by adding:

$$\begin{array}{r} 179 \\ \times 253 \\ \hline 537 \\ 895 \\ 358 \\ \hline \end{array} \qquad \begin{array}{r} 847 \\ \times 159 \\ \hline 7623 \\ 4235 \\ 847 \\ \hline \end{array}$$

$$\begin{array}{r} 352 \\ \times 275 \\ \hline 1760 \\ 2464 \\ 704 \\ \hline \end{array} \qquad \begin{array}{r} 765 \\ \times 168 \\ \hline 6120 \\ 4590 \\ 765 \\ \hline \end{array}$$

$$\begin{array}{r} 286 \\ \times 347 \\ \hline 2002 \\ 1144 \\ 858 \\ \hline \end{array} \qquad \begin{array}{r} 953 \\ \times 146 \\ \hline 5718 \\ 3812 \\ 953 \\ \hline \end{array}$$

$$\begin{array}{r} 417 \\ \times 284 \\ \hline 1668 \\ 3336 \\ 834 \\ \hline \end{array} \qquad \begin{array}{r} 678 \\ \times 173 \\ \hline 2034 \\ 4746 \\ 678 \\ \hline \end{array}$$

$$\begin{array}{r} 581 \\ \times 186 \\ \hline 3486 \\ 4648 \\ 581 \\ \hline \end{array} \qquad \begin{array}{r} 185 \\ \times 364 \\ \hline 740 \\ 1110 \\ 555 \\ \hline \end{array}$$

TEST

10,001

834

1976

10,790

4644

49,536

10492

118,035

6552

936

15,912

90,155

137
× 73
411
959
___,___

278
× 39
2502
___
10,842

494
× 24
____
988
11,856

166
× 65
830
996
___,___

1,548
× 32
3096
_____
___,___

2,623
× 45
13115
______
____,___

936
× 17
____
___
___,___

365
×247
2555
1460
730
___,___

946

649

864

874

756

92,988

942

149,778

1568

896

329

987

104,293

$$\begin{array}{r} 473 \\ \times 258 \\ \hline 3784 \\ 2365 \\ \underline{\quad\quad} \\ \hline 122{,}034 \end{array}$$

$$\begin{array}{r} 649 \\ \times 187 \\ \hline 4543 \\ 5192 \\ \underline{\quad\quad} \\ \hline 121{,}363 \end{array}$$

$$\begin{array}{r} 216 \\ \times 431 \\ \hline 216 \\ 648 \\ \underline{\quad\quad} \\ \hline 93{,}096 \end{array}$$

$$\begin{array}{r} 874 \\ \times 165 \\ \hline 4370 \\ 5244 \\ \underline{\quad\quad} \\ \hline 144{,}210 \end{array}$$

$$\begin{array}{rl} 378 & \\ \times 246 & \\ \hline 2268 & \\ 1512 & \\ \underline{\quad\quad} & \text{(Check.)} \\ \hline \underline{\quad},\underline{\quad\quad} & \text{(Check.)} \end{array}$$

$$\begin{array}{rl} 942 & \\ \times 159 & \\ \hline 8478 & \\ 4710 & \\ \underline{\quad\quad} & \text{(Check.)} \\ \hline \underline{\quad\quad},\underline{\quad\quad} & \text{(Check.)} \end{array}$$

$$\begin{array}{rl} 224 & \\ 475 & \\ \hline 1120 & \\ \underline{\quad\quad\quad} & \text{(Check.)} \\ \underline{\quad\quad} & \text{(Check.)} \\ \hline 106{,}400 & \end{array}$$

$$\begin{array}{rl} 329 & \\ 317 & \\ \hline 2303 & \\ \underline{\quad\quad\quad} & \text{(Check.)} \\ \underline{\quad\quad} & \text{(Check.)} \\ \hline \underline{\quad\quad\quad},\underline{\quad\quad} & \text{(Check.)} \end{array}$$

3424

856

122,408

000

856

88,168

6405

915

163,785

1143

762

88,138

5992

3745

749

2085

3336

834

Don't forget to check:

856
×143
2568
____
___
___,___

428
×206
2568
___
___
__,___

915
×179
8235
____
___

127
×694
508
____
___

749
×158
____
____
___
118,342

417
×285
____
____
___
118,845

2528
2844
948
125,768

4950
5775
825
145,200

1666
1904
714
92,106

1046
3138
523
84,726

5886
3924
654
110,526

1380
2760
690
97,980

Check after each step.

316
×398
____
____
___
___,___

825
×176
____
____
___
___,___

238
×387
____
____
___

523
×162
____
____
___

654
×169

345
×284

1,090,250

1,069,443

1,199,312

1,949,906

7842

9358

6598

1,181,042

9756

1,049,312

$$\begin{array}{r} 1{,}246 \\ \times\ 875 \\ \hline 6230 \\ 8722 \\ 9968 \\ \hline \end{array}$$

_,___,___

$$\begin{array}{r} 2{,}187 \\ \times\ 489 \\ \hline 19683 \\ 17496 \\ 8748 \\ \hline \end{array}$$

_,___,___

$$\begin{array}{r} 3{,}259 \\ \times\ 368 \\ \hline 26072 \\ 19554 \\ 9777 \\ \hline \end{array}$$

$$\begin{array}{r} 9{,}898 \\ \times\ 197 \\ \hline 69286 \\ 89082 \\ 9898 \\ \hline \end{array}$$

$$\begin{array}{r} 7{,}842 \\ \times\ 196 \\ \hline 47052 \\ 70578 \\ \_\_\_\_ \\ \hline 1{,}537{,}032 \end{array}$$

(Check.)

$$\begin{array}{r} 4{,}679 \\ \times\ 287 \\ \hline 32753 \\ 37432 \\ \_\_\_\_ \\ \hline 1{,}342{,}873 \end{array}$$

(Check.)

$$\begin{array}{r} 6{,}598 \\ \times\ 179 \\ \hline 59382 \\ 46186 \\ \_\_\_\_ \\ \hline \end{array}$$

(Check.)

_,___,___ (Check.)

$$\begin{array}{r} 1{,}084 \\ \times\ 968 \\ \hline 8672 \\ 6504 \\ \_\_\_\_ \\ \hline \end{array}$$

(Check.)

_,___,___ (Check.)

35916

5986

22302

9912

1,229,088

5,986
× 169
53874
______ (Check.)
_____ (Check.)
1,011,634

2,478
× 496
14868
______ (Check.)
_____ (Check.)
(Check.)

4268

9603

1,011,516

71592

8949

1,673,463

Be sure to check.

1,067
× 948
8536
_____
_____

8,949
× 187
62643
______
_____

32081

9166

1,260,325

16420

9852

1,162,536

4,583
× 275
22915
______
_____

3,284
× 354
13136
______
_____

69,190

767

143,429

2624

984

125,296

5944

4458

743

124,824

1,196,800

1,064,226

TEST

```
   374
  ×185
  ----
  1870
 2992
 374
------
 __,___
```

```
   767
  ×187
  ----
  5369
 6136
 ___
------
___,___
```

```
   328
  ×382
  ----
   656
 ____
 ___
------
___,___
```

```
   743
  ×168
  ----
  ____
 ____
 ___
------
___,___
```

```
  4,675
 ×  256
 ------
  28050
 23375
 9350
-------
```

```
  2,137
 ×  498
 ------
  17096
 19233
 8548
-------
```

50232

58604

8372

12435

22383

9948

21686
18588
9294
1,136,966

27076
54152
6769
1,245,496

38808
43659
9702
1,445,598

35658
29715
5943
927,108

Don't forget to check.

8,372
× 176
______
______
_____
1,473,472

2,487
× 495
______
______
_____
1,231,065

3,098
× 367
______
______
_____
_,___,___

6,769
× 184
______
______
_____
_,___,___

4,851
× 298

5,943
× 156

9828
8736
9828
1,079,988

32753
23395
9358
1,202,503

58488
77984
9748
1,813,128

18856
21213
7071
938,086

16480
23072
9888
1,236,000

27860
41790
6965
1,142,260

1,092
× 989

4,679
× 257

9,748
× 186

2,357
× 398

3,296
× 375

6,965
× 164

22347
0000
9932
1,015,547

61817
79479
8831
1,739,707

0000
39123
5589
950,130

31648
23736
7912
1,060,208

47910
31940
7985
1,165,810

8148
10476
9312
1,044,108

2,483
× 409

8,831
× 197

5,589
× 170

3,956
× 268

7,985
× 146

1,164
× 897

$$\begin{array}{r} \overline{34251} \\ 29358 \\ 9786 \\ \hline 1{,}306{,}431 \end{array}$$

$$\begin{array}{r} \overline{46312} \\ 52101 \\ 5789 \\ \hline 1{,}146{,}222 \end{array}$$

$$\begin{array}{r} \overline{11890} \\ 19024 \\ 9512 \\ \hline 1{,}153{,}330 \end{array}$$

$$\begin{array}{r} \overline{29763} \\ 23149 \\ 9921 \\ \hline 1{,}253{,}353 \end{array}$$

$$\begin{array}{r} \overline{54504} \\ 48448 \\ 6056 \\ \hline 1{,}144{,}584 \end{array}$$

$$\begin{array}{r} \overline{20574} \\ 16002 \\ 6858 \\ \hline 866{,}394 \end{array}$$

$$\begin{array}{r} 4{,}893 \\ \times\ \ 267 \\ \hline \end{array}$$

$$\begin{array}{r} 5{,}789 \\ \times\ \ 198 \\ \hline \end{array}$$

$$\begin{array}{r} 2{,}378 \\ \times\ \ 485 \\ \hline \end{array}$$

$$\begin{array}{r} 3{,}307 \\ \times\ \ 379 \\ \hline \end{array}$$

$$\begin{array}{r} 6{,}056 \\ \times\ \ 189 \\ \hline \end{array}$$

$$\begin{array}{r} 2{,}286 \\ \times\ \ 379 \\ \hline \end{array}$$

2,231

4,125

13,552

8,100

121,072

105,478

69,190

143,429

1,196,800

908,844

Check after you finish the entire problem. If your answer is wrong, go back over the problem to find your mistake.

$$\begin{array}{r} 97 \\ \times 23 \\ \hline \end{array} \qquad \begin{array}{r} 75 \\ \times 55 \\ \hline \end{array}$$

$$\begin{array}{r} 847 \\ \times\ 16 \\ \hline \end{array} \qquad \begin{array}{r} 225 \\ \times\ 36 \\ \hline \end{array}$$

$$\begin{array}{r} 4{,}324 \\ \times\ 28 \\ \hline \end{array} \qquad \begin{array}{r} 2{,}293 \\ \times\ 46 \\ \hline \end{array}$$

$$\begin{array}{r} 185 \\ \times 374 \\ \hline \end{array} \qquad \begin{array}{r} 767 \\ \times 187 \\ \hline \end{array}$$

$$\begin{array}{r} 4{,}675 \\ \times\ 256 \\ \hline \end{array} \qquad \begin{array}{r} 8{,}574 \\ \times\ 106 \\ \hline \end{array}$$

FINAL EXAM

Side 2

$$\begin{array}{r} 246 \\ \times \quad 3 \\ \hline \end{array} \qquad \begin{array}{r} 582 \\ \times \quad 7 \\ \hline \end{array} \qquad \begin{array}{r} 2,319 \\ \times \quad 4 \\ \hline \end{array} \qquad \begin{array}{r} 4,387 \\ \times \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 12,406 \\ \times \quad 7 \\ \hline \end{array} \qquad \begin{array}{r} 31,720 \\ \times \quad 9 \\ \hline \end{array} \qquad \begin{array}{r} 107,801 \\ \times \quad 8 \\ \hline \end{array} \qquad \begin{array}{r} 261,719 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \times 12 \\ \hline \end{array} \qquad \begin{array}{r} 42 \\ \times 14 \\ \hline \end{array} \qquad \begin{array}{r} 48 \\ \times 17 \\ \hline \end{array} \qquad \begin{array}{r} 79 \\ \times 35 \\ \hline \end{array}$$

$$\begin{array}{r} 167 \\ \times \quad 73 \\ \hline \end{array} \qquad \begin{array}{r} 356 \\ \times 247 \\ \hline \end{array} \qquad \begin{array}{r} 643 \\ \times 368 \\ \hline \end{array} \qquad \begin{array}{r} 3,137 \\ \times \quad 398 \\ \hline \end{array}$$

$$\begin{array}{r} 5,064 \\ \times \quad 198 \\ \hline \end{array} \qquad \begin{array}{r} 7,568 \\ \times \quad 184 \\ \hline \end{array}$$

$$\begin{array}{r} 8,947 \\ \times \quad 186 \\ \hline \end{array} \qquad \begin{array}{r} 3,284 \\ \times \quad 409 \\ \hline \end{array}$$

A Sullivan Associates Program

25
3528